

MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS-1963-A

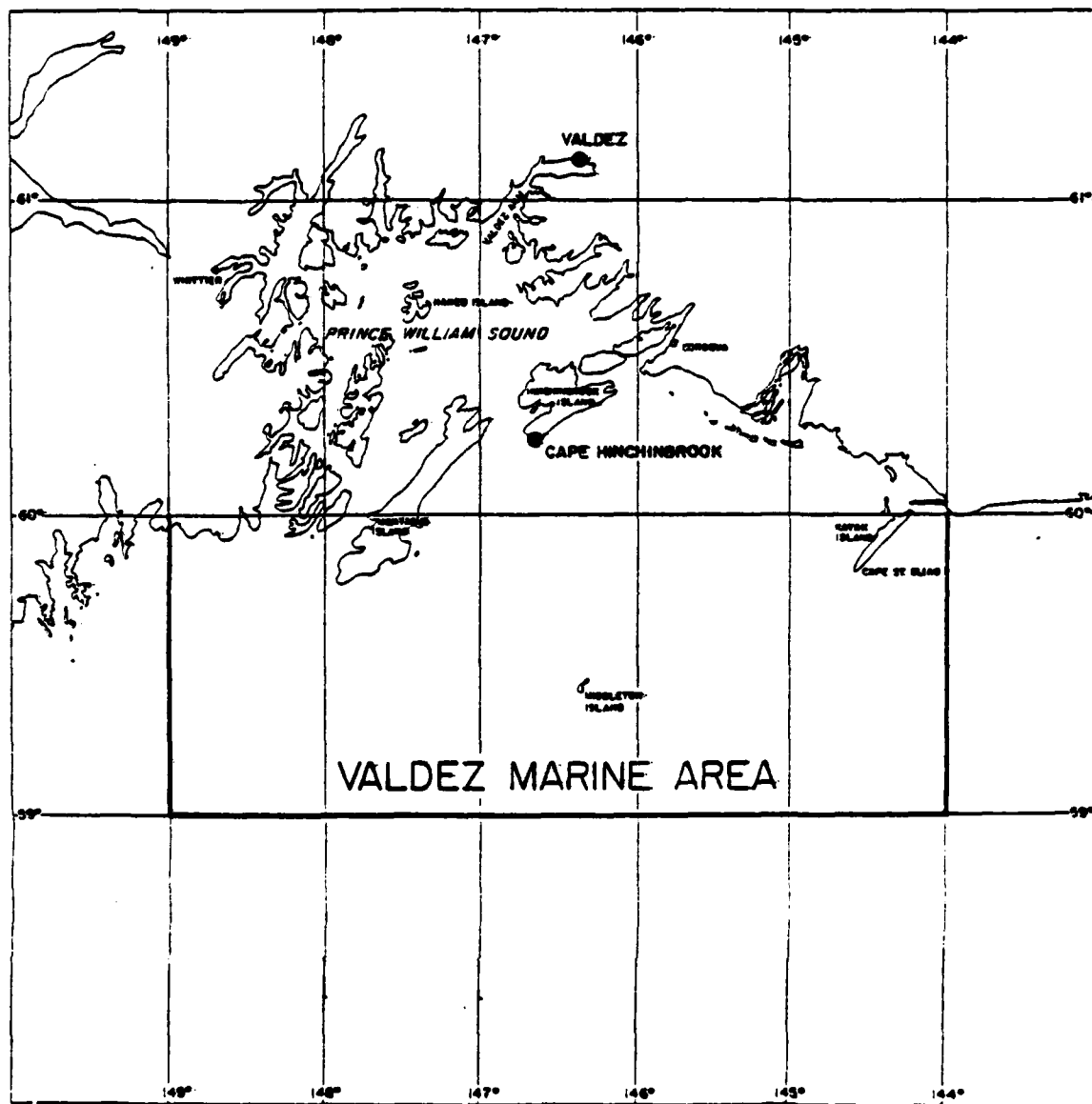
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LOCATIONS FOR VALDEZ MARINE AREA, VALDEZ, AND CAPE HINCHINBROOK SUMMARIES



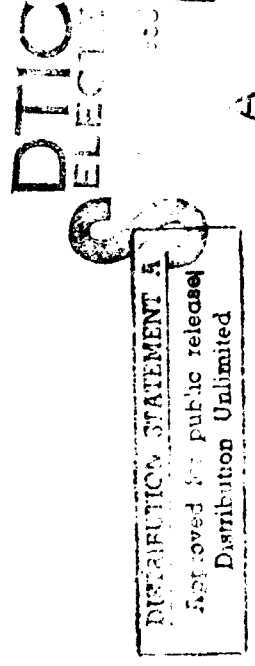
(6) SUMMARY OF  
SYNOPTIC METEOROLOGICAL OBSERVATIONS  
(SSMO),

ALASKA COASTAL MARINE AREA,

VALDEZ MARINE AREA,  
VALDEZ,  
CAPE HINCHINBROOK.

National Climatic Center  
Asheville, N.C.

11 JUN 1978



UNITED STATES  
DEPARTMENT OF COMMERCE  
Juanita M. Kreps, Secretary

National Oceanic and  
Atmospheric Administration  
Richard A. Frank, Administrator

Environmental Data  
Service  
Thomas S. Austin, Director

409

12/1671

# SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (MONTHLY AND ANNUAL)

The data contained in these tables were obtained from Tape Data Family 14 (TDF-14), Land Surface Observations, Data for Valdez and Cape Hinchinbrook were edited and keyed to magnetic tape for a ten year period: Valdez hourly observations varied from 0800-1600 LST to 0500-2000 LST for the period July 1967-June 1977; Cape Hinchinbrook observations were three hourly observations from 0100-1900 LST (excluding 1600 LST) for the period July 1964-June 1974. The marine area in this volume is defined 59°N to Alaska's Coast, 144°W-149°W. The marine data contains weather observations taken aboard vessels of varying registry over the period 1929-1977. An automated/visual quality control of the marine data was made and, where possible, missing psychrometric data were computed.

It should be noted that the marine area data are based upon observations made by ships in passage. Such ships tend to avoid bad weather when possible, thus biasing our data toward good weather samples.

Because the number of observations may vary from one table to the other, no absolute relationship exists between

the tables. As an example, air temperature counts for Tables 13 and 17 may not be identical since only observations containing both air temperature and relative humidity were counted in Table 13 and only those with both temperature and air-sea temperature difference were counted in Table 17 (Marine Area only). No requirement for simultaneous recording of all elements was made.

The primary period of record is that period (extending back in time from the most recent data) during which eighty percent of the total number of observations were recorded. The overall period is the earliest to the latest observed data used in compiling the tables.

Tables 17-20 are not available for Valdez and Cape Hinchinbrook, as sea-surface temperature, sea and swell waves were not recorded. In addition, Tables 5-7, 10, 12-14, 16 and 21 are not available for Cape Hinchinbrook; there were insufficient data for cloud tables, psychrometric temperatures and barometric pressures were not recorded, and Table 14 could not be produced as it depends on psychrometric temperatures used in Table 13.

## THE TABLES

Percentage frequencies are computed to hundredths and rounded to tenths. An asterisk (\*) indicates percentage frequency > 0 but < .05. A value followed by a plus sign indicates greater than or equal to that value (8+ means 8 or greater). NH = low cloud amount (or middle cloud amount when low clouds are not present). The hours given in this publication are GMT.

The geographic position shown on the tables is the central position (centroid) of the observations within the

area. This value may fall outside irregular areas.

Annual values are computed on the basis of the sum of the monthlies divided by the number of months.

Tables 1 through 19 appear in numerical order for each month, with the annual tables appearing after the tables for December. Tables 20 and 21 appear at the end of the entire series, after the annual summary for Table 19.

Accession for	NTIS GRA&I	DDC TAB	Unannounced	Justified	By	Dist	Avail

*File on file*

Table 1 - Percentage Frequency of Weather Occurrence by Wind Direction (8 pts.).

Table 2 - Percentage Frequency of Weather Occurrence by Hour (GMT).

Table 3 - Percentage Frequency of Wind Direction (8 pts.) by Speed and by Hour (GMT). This table includes mean wind speed (kts.) by direction (8 pts.).

Table 3A - Percentage Frequency of Wind Direction (8 pts.) by Speed and by Hour (GMT). This table includes mean wind speed (kts.) by direction.

Table 4 - Percentage Frequency of Wind Speed by Hour (GMT). This table includes mean speed by hour.

Table 5 - Percentage Frequency of Total Cloud Amount (Okts) by Wind Direction (8 pts.). This table includes mean cloud amount by wind direction.

Table 6 - Percentage Frequency of Ceiling Heights (feet, NH > 4/8) and Occurrence of NH < 5/8 by Wind Direction (8 pts.).

Table 7 - Cumulative Percentage Frequency of Occurrence of Ceiling Height (feet, NH > 4/8) and Visibility (Nautical Miles).

Table 7A - Percentage Frequency of Low Cloud Amount (or Middle Cloud Amount if Low Clouds are not present), and Percentage Frequency of Sky Obscured. Amounts are in Okts.

Table 8 - Percentage Frequency of Wind Direction (8 pts.) vs. Occurrence or Non-Occurrence of Precipitation at Observation Time with Varying Values of Visibility (Nautical Miles).

Table 9 - Percentage Frequency of Wind Direction (8 pts.) vs. Wind Speed (kts.) with Varying Values of Visibility (Nautical Miles).

Table 10 - Percentage Frequency of Ceiling Heights (feet, NH > 4/8) and Occurrence of NH < 5/8 by Hour (GMT).

Table 11 - Percentage Frequency of Visibility (Nautical Miles) by Hour (GMT).

Table 12 - Cumulative Percentage Frequency of Ranges of Visibility (Nautical Miles) and Ceiling Height (feet, NH > 4/8) by Hour (GMT).

Table 13 - Percentage Frequency of Relative Humidity (%) by Air Temperature (° F.).

Table 14 - Percentage Frequency of Wind Direction (8 pts.) by Air Temperature (° F.).

Table 15 - Means, Extremes, and Percentiles of Air Temperature (° F.) by Hour (GMT). Extreme temperatures are the one maximum and one minimum value appearing in the marine data file. The extremes may be unrepresentative due to sampling errors. Extrapolation from the percentile values usually gives a better estimate of expected extreme conditions.

Table 16 - Percentage Frequency of Relative Humidity (%) by Hour (GMT).

Table 17 - Percentage Frequency of Air Temperature (° F.) and the Occurrence of Fog vs. Air-Sea Temperature Difference (° F.).

Air-Sea Temperature Difference is:

Positive when the air is warmer than the sea surface; Negative when the air is cooler than the sea surface. In the table heading, the limits of the temperature ranges appear in a vertical arrangement along the top of the table.

Table 18 - Percentage Frequency of Surface Wind Speed (kts.) and Direction (8 pts.) vs. Sea Height (feet). Source deck 128 for which data are available from mid-1963 was used for these tables. This deck represents the latest and most complete homogeneous source of wave data available. Here, only sea waves generated by local winds in the vicinity of the observer are summarized.

Table 19 - Percentage Frequency of Wave Height (feet) vs. Wave Period (seconds). In this table when both sea and swell waves are present in an observation, the higher of the two is used. If both are the same height, the longer period is chosen. When only one of the wave groups is observed, either sea or swell, it is used in the summary. Swell waves are those generated by winds distant from the local area where the observation is taken.

Tables 1-19 appear together for each month and in the annual summary. The following two tables appear at the end of the entire series for each area.

**Note:** In this volume, percentage frequencies at specified hours of the day refer to percentages of observations taken at those hours, rather than percentages of observations taken at all hours. Data at adjacent hours are summarized with data at synoptic hours, i.e., data from 02 and 04 GMT are combined with data from 03 GMT.

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VALDEZ	80-132
CAPE HINCHINBROOK	133-158

Table 20 - Monthly and Annual Percentage Frequencies and Means of Sea Surface Temperature ( $^{\circ}$  F.).

Table 21 - Monthly and Annual Sea Level Pressures (millibars). This table includes means by hour and for all hours, extreme values and percentile values.

Copies of this document are obtainable from the National Technical Information Service (NTIS), Springfield, Virginia 22161.

# DIRECTION AND WEATHER CODES

## CONVERSION OF WIND AND WAVE DIRECTION TO 8 POINTS

A reduced bias system was employed in converting wind and wave directions to 8 points. This method attaches weighting values to observations which overlap two different 8 point sectors and treats them as "decimal observation counts." These decimal quantities are rounded to whole numbers for presentation as "observational counts" in the tables. Figures 1-4 below show the 8 point system with other systems superimposed.

Note: Because of rounding, sub-total sums of "observational counts" may not equal grand totals.

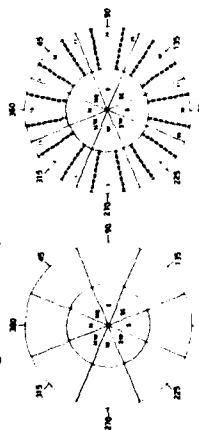


Fig 1. The 8 point direction system.

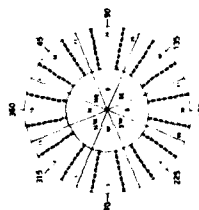


Fig 2. The 16 point direction system superimposed on the 8 point system.

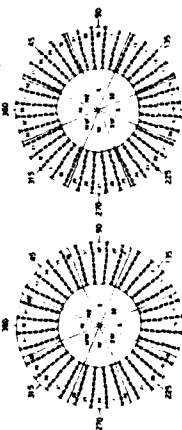


Fig 3. The 32 point direction system superimposed on the 8 point system.



Fig 4. The 64 point direction system superimposed on the 8 point system.

VISIBILITY (VV)		PRESENT WEATHER (1960 WMO CODE 4677)	
CODE	INTERPRETATION (NAUTICAL MILES)	CODE	INTERPRETATION
90-93	VV<1/2	58-59	RAIN
94	1/2≤VV<1	60-65	
95	1≤VV<2	91-94	
96	2≤VV<5	(68-69, 95, 97 IF TEMP >40°F)	FOG (WITHOUT PRECIPITATION) PAST HOUR
97	5≤VV<10	80-82, (83-84 IF TEMP >40°F)	RAIN SHOWERS
98	10≤VV<25	50-55, 58-59	
99	VV≥25	56-57	DRIZZLE
		66-67	FREEZING PRECIPITATION
		70-75, 85-86	SNOW
		(68-69, 83-84, 95, 97 IF TEMP ≤40°F)	
		76-79	OTHER FROZEN PRECIPITATION
		87-90	HAIL
		93-94	
		96, 99	
		13, 17	THUNDER LIGHTNING THUNDERSTORM
		19, 29	
		95-99	

NOTE: <means less than;  
>means greater than;  
≤means less than or equal to;  
≥means greater than or equal to.

NOTE: The following WMO codes were counted in two weather categories. 58-59 (rain and drizzle); 68-69 (rain and snow); 93-94 (rain and hail); 96 and 99 (hail and thunder/lightning/thunderstorm); 95 and 97 (snow and thunder/lightning/thunderstorm), or (rain and thunder/lightning/thunderstorm).

WAVE HEIGHT (from source decks 128 and 116)

RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)	RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)	RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)
00	≤.25}	<1	12	>5.75 to 6.25}	20-22	30	>14.75 to 15.25	
			13	>6.25 to 6.75}		31	>15.25 to 15.75	
01	>.25 to .75}	1-2				32	>15.75 to 16.25	
			14	>6.75 to 7.25}	23-25	33	>16.25 to 16.75	49-60
02	>.75 to 1.25}	3-4	15	>7.25 to 7.75}		34	>16.75 to 17.25	
						35	>17.25 to 17.75	
			16	>7.75 to 8.25}		36	>17.75 to 18.25	
03	>1.25 to 1.75}	5-6	17	>8.25 to 8.75}				
			18	>8.75 to 9.25}	26-32	37	>18.25 to 18.75	
04	>1.75 to 2.25}	7	19	>9.25 to 9.75}		38	>18.75 to 19.25	
						39	>19.25 to 19.75	61-70
05	>2.25 to 2.75}	8-9	20	>9.75 to 10.25}		40	>19.75 to 20.25	
			21	>10.25 to 10.75}		41	>20.25 to 20.75	
06	>2.75 to 3.25}	10-11	22	>10.75 to 11.25}	33-40	42	>20.75 to 21.25	
			23	>11.25 to 11.75}				
			24	>11.75 to 12.25}		43	>21.25 to 21.75	
07	>3.25 to 3.75}	12				44	>21.75 to 22.25	
			25	>12.25 to 12.75}		45	>22.25 to 22.75	
08	>3.75 to 4.25}	13-16	26	>12.75 to 13.25}		46	>22.75 to 23.25	
09	>4.25 to 4.75}		27	>13.25 to 13.75}	41-48	47	>23.25 to 23.75	71-86
			28	>13.75 to 14.25}		48	>23.75 to 24.25	
			29	>14.25 to 14.75}		49	>24.25 to 24.75	
10	>4.75 to 5.25}	17-19				50	>24.75 to 25.25	
11	>5.25 to 5.75}					51	>25.25 to 25.75	
						52	>25.75 to 26.25	
						53-99	>26.25 to 49.75}	≥87
						Indeterminate-INDET		

#### ACKNOWLEDGMENT

This project (Research Unit No. 496) was initiated for and supported in part by the Bureau of Land Management through the interagency agreement of the National Oceanic Atmospheric Administration. It is in response to needs of petroleum development of the Alaskan outer continental shelf which is managed by the Outer Continental Shelf Environmental Assessment Program (OCSEAP) office.

The funding for completion of this publication was made possible through the Marine Pilot Program of NOAA's National Oceanographic Data Center.

Data summaries were made possible through programs designed at the National Climatic Center (NCC) and funded primarily by the Director, Naval Oceanography and Meteorology (formerly Commander, Naval Weather Service Command) in support of the Marine Atlas Revision program. The Naval Weather Service also provided major support for acquisition of basic marine data.

Special acknowledgment is extended to members of the National Climatic Center's Data Translation Branch and Primary Data Branch for keying and editing land surface observations respectively, and Computer Support Branch for data processing of land and marine surface observations.

PERIOD: (PRIMARY) 1962-1977  
(OVER-ALL) 1929-1977

JANUARY

VALDEZ MARINE AREA  
59.8N 145.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG MO PCPN	FOG MO PCPN PAST HR	SHOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG MEA
N	.0	.0	.0	.0	12.2	.0	.0	12.2	.0	.0	2.8	.0	.0	.0	85.0
NE	4.6	1.9	2.4	.0	8.2	.0	.0	16.1	4.1	.0	1.2	.0	.0	.0	78.7
E	23.1	2.7	1.5	.0	15.1	.0	.0	38.7	9.2	.0	2.7	.0	.0	.0	49.4
SE	21.9	.4	8.6	.0	3.9	.0	.0	34.8	9.0	.0	6.9	.0	.0	.0	49.4
S	24.6	.0	5.6	.0	7.0	.0	.0	34.5	11.3	.0	3.6	.0	.0	.0	48.6
SW	7.3	3.3	3.3	.0	6.6	.0	.0	19.9	2.6	.0	3.3	.0	2.6	.0	71.5
W	.0	2.2	2.2	.0	4.4	.0	.0	6.7	.0	.0	8.1	.0	.0	.0	85.2
NW	1.8	1.8	1.8	.0	4.5	.0	.0	10.0	5.5	.0	5.5	.0	.0	.0	79.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	3.3	3.3	.0	.0	.0	.0	6.7	.0	.0	3.3	.0	.0	.0	90.0
TOT PCT	10.2	1.7	2.8	.0	8.3	.0	.0	21.7	5.1	.0	3.8	.0	.2	.0	69.2
TOT OBS:	529														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG MO PCPN	FOG MO PCPN PAST HR	SHOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG MEA
0000	10.3	2.4	2.4	.0	7.9	.0	.0	20.6	7.3	.0	4.8	.0	.0	.0	.0	67.3
0600	10.0	.8	4.6	.0	7.7	.0	.0	22.3	3.1	.0	3.1	.0	.8	.0	.0	70.8
1201	9.0	1.5	1.5	.0	9.0	.0	.0	19.4	4.5	.0	4.5	.0	.0	.0	.0	71.6
1801	13.3	1.7	2.5	.0	8.3	.0	.0	25.8	9.8	.0	2.5	.0	.0	.0	.0	65.8
TOT PCT TOT OBS:	10.6 549	1.6	2.7	.0	8.2	.0	.0	21.9	5.3	.0	3.8	.0	.2	.0	.0	68.9

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.7	3.9	6.5	1.5	.6	.0		13.5	15.3	16.9	.0	13.3	.0	12.2	.0	10.9	.0	
NE	.8	6.6	8.4	2.9	.8	.2		19.7	15.2	17.4	.0	19.0	.0	19.3	.0	24.8	.0	
E	.7	4.5	5.9	5.3	2.8	.1		19.4	20.5	18.3	.0	15.7	79.0	28.7	50.0	13.6	.0	
SE	.2	3.2	4.6	2.5	.3	.9		11.0	17.6	8.9	.0	10.1	25.0	8.7	.0	17.9	.0	
S	.3	2.4	3.0	1.2	.0	.0		6.9	14.3	9.5	.0	7.1	.0	4.9	.0	4.7	75.0	
SW	.2	2.8	2.9	.8	.4	.0		7.1	13.4	7.5	.0	10.1	.0	4.1	.0	6.7	25.0	
W	.2	4.2	1.5	.3	.0	.0		6.4	10.4	7.3	.0	6.9	.0	8.3	25.0	2.0	.0	
NW	.4	5.1	4.2	.2	.4	.0		10.4	11.9	7.5	.0	11.3	.0	9.1	25.0	15.0	.0	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	5.7							5.7	.0	6.8	.0	6.3	.0	4.7	.0	4.5	.0	
TOT OBS	49	173	196	81	29	2	530		14.8	181	0	126	1	127	2	112	1	
TOT PCT	9.2	32.6	37.0	15.3	5.3	.4		100.0		100.0	.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+	48+					00	03	06	12	18
N	2.1	6.5	3.4	1.5	.0			13.5	15.3	16.9	13.2	12.0	10.8		
NE	3.0	9.5	5.7	1.3	.2			19.7	15.2	17.4	18.9	19.0	24.8		
E	1.6	5.5	7.2	4.8	.3			19.4	20.5	18.3	18.1	29.1	13.5		
SE	1.1	4.5	3.7	1.4	.2			11.0	17.6	8.9	10.2	8.5	17.7		
S	1.2	3.3	1.9	.3	.0			6.9	14.3	9.5	7.1	4.8	5.3		
SW	2.1	3.3	1.1	.6	.0			7.1	13.4	7.5	10.0	4.1	6.9		
W	2.4	2.7	1.0	.2	.0			6.4	10.4	7.3	6.9	8.5	2.0		
NW	2.6	6.0	1.4	.2	.2			10.4	11.9	7.5	11.2	9.3	14.8		
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0		
CALM	5.7							5.7	.0	6.8	6.3	4.7	4.4		
TOT OBS	116	219	195	55	5	530			14.8	181	127	129	113		
TOT PCT	21.9	41.3	23.3	10.4	.9			100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1962-1977  
(OVER-ALL) 1929-1977

JANUARY

VALDEZ MARINE AREA  
59.8N 145.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
0000	6.8	1.9	30.4	34.8	18.6	7.5	.0	15.4	100.0	161
0600	6.3	3.9	35.4	39.4	9.4	6.7	.8	14.2	100.0	127
1200	4.7	6.2	31.0	34.9	19.4	3.1	.8	14.3	100.0	129
1800	4.4	2.7	34.5	39.8	12.4	6.2	.0	15.0	100.0	113
TOT	30	19	173	196	81	29	2	14.8		530
PCT	5.7	3.6	32.6	37.0	15.3	5.5	.4		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	6.9	1.4	2.7	4.3		3.9
NE	5.6	2.2	5.1	5.6		4.7
E	1.8	1.3	2.5	14.6		6.8
SE	.5	.3	2.4	6.8		6.9
S	.7	.7	1.2	4.6		6.6
SW	.7	.4	2.4	1.9		6.0
W	1.8	1.5	1.3	1.5		4.1
NW	5.1	1.4	2.0	2.7		3.7
VAR	.0	.0	.0	.0		.0
CALM	3.6	.7	.5	1.4		2.7
TOT OBS	110	41	83	180	414	5.2
TOT PCT	26.6	9.9	20.0	43.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)  
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY MGT	TOTAL OBS
N	.4	.0	.0	.2	2.2	3.0	.5	.0	.0	.2	8.7	
NE	.6	.0	.2	1.6	3.8	2.4	1.0	.0	.0	.0	8.8	
E	4.2	.0	1.0	1.9	6.0	2.2	.4	.0	.2	.0	4.2	
SE	1.0	1.0	1.1	.8	1.9	2.3	.1	.0	.0	.0	1.7	
S	.2	.0	1.6	.4	2.0	.5	.6	.2	.0	.0	1.6	
SW	.0	.2	.1	1.0	.9	1.6	.1	.5	.0	.0	1.1	
W	.0	.0	.0	.8	.8	.7	.0	.0	.0	.0	3.7	
NW	.2	.0	.0	.3	1.9	1.5	.0	.0	.0	.0	7.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.5	.0	.7	.2	.0	.0	.0	.0	4.6	
TOT OBS	29	5	19	29	84	60	11	3	1	1	172	414
TOT PCT	7.0	1.2	4.6	7.0	20.3	14.5	2.7	.7	.2	.2	41.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.5	.5	.5	.5	.5	.5	.5	.5
= OR >5000	.7	1.2	1.2	1.2	1.2	1.2	1.2	1.2
= OR >3500	2.8	3.7	3.7	3.7	3.7	3.7	3.7	3.7
= OR >2000	14.8	16.6	17.8	18.0	18.7	18.7	18.7	18.7
= OR >1000	25.6	31.9	36.0	37.0	38.3	38.6	38.6	38.6
= OR >600	29.3	37.6	42.7	44.1	45.7	46.0	46.0	46.0
= OR >300	30.9	41.1	46.9	48.5	50.1	50.3	50.3	50.3
= OR >150	31.4	42.0	48.0	49.7	51.3	51.5	51.5	51.5
= OR >0	32.3	43.9	51.5	54.0	55.7	58.2	59.4	59.4
TOTAL	140	190	223	234	241	252	257	257

TOTAL NUMBER OF OBS: 433

PCT FREQ NM <5/8: 40.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBS	TOTAL OBS
17.7	9.0	6.9	5.4	4.6	4.1	6.2	8.9	32.8	463

PERIOD: (PRIMARY) 1962-1977  
(OVER-ALL) 1929-1977

JANUARY

VALDEZ MARINE AREA  
59.8N 145.9W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	.0	1.5	.4	.0	.0	.0	.2	.0	.0	2.3	
	NO PCP	.2	.0	.2	.0	.2	*	.1	.0	.0	.2	.9	
	TOT %	.4	.0	1.7	.4	.2	*	.1	.2	.0	.2	3.2	
1/2<1	PCP	.3	.2	.6	.2	.2	.4	.0	.0	.0	.0	1.9	
	NO PCP	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
	TOT %	.3	.2	.6	.2	.2	.6	.0	.0	.0	.0	2.1	
1<2	PCP	.3	.7	.7	.2	.0	.2	.1	*	.0	.0	2.3	
	NO PCP	.0	.2	.2	.4	.0	.0	.0	.0	.0	.0	.8	
	TOT %	.3	.9	.9	.6	.0	.2	.1	*	.0	.0	3.0	
2<5	PCP	.1	1.3	1.8	.8	.0	.0	.0	.2	.0	.2	4.4	
	NO PCP	.2	.4	1.6	.6	.4	.1	.5	.2	.0	.0	4.0	
	TOT %	.3	1.7	3.4	1.4	.4	.1	.5	.4	.0	.2	8.3	
5<10	PCP	.5	.7	1.9	1.3	1.6	.6	.1	.2	.0	.0	7.0	
	NO PCP	.5	2.9	2.2	1.7	.2	1.6	1.3	.9	.0	.8	12.1	
	TOT %	1.0	3.6	4.1	3.0	1.8	2.1	1.5	1.1	.0	.8	19.1	
10+	PCP	.1	.3	1.0	.9	.5	.3	.1	.4	.0	.2	4.0	
	NO PCP	11.0	19.0	7.8	4.3	3.6	3.8	4.0	8.2	.0	4.4	60.2	
	TOT %	11.2	19.3	8.8	5.3	4.2	4.1	4.2	8.7	.0	4.5	64.2	
TOT OBS													
TOT PCT		13.6	19.7	19.5	10.8	6.7	7.1	6.4	10.4	.0	5.7	100.0	528

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.0	.0	.2	.0	.2	*	.1	.2	.0	.0	.8	
	11-21	.2	.0	.4	.4	.2	.0	.0	.0	.0	.0	1.1	
	22+	.2	.0	1.1	*	.0	.0	.0	.0	.0	.0	1.3	
	TOT %	.4	.0	1.7	.4	.4	*	.1	.2	.0	.2	3.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
	11-21	.3	*	.0	.2	.2	.2	.0	.0	.0	.0	.9	
	22+	.0	.2	.6	.0	.0	.2	.0	.0	.0	.0	.9	
	TOT %	.3	.2	.6	.2	.2	.6	.0	.0	.0	.0	2.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	*	.1	.2	.0	.0	.1	*	.0	.0	.6	
	11-21	.3	.6	.6	.2	.0	.2	.0	.0	.0	.0	1.9	
	22+	.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.3	.9	.9	.6	.0	.2	.1	*	.0	.0	3.0	
2<5	0-3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	.4	
	4-10	.0	.2	1.1	.4	.2	.1	.3	.4	.0	.0	2.8	
	11-21	.3	.7	.7	.0	.0	.0	.0	.0	.0	.0	1.7	
	22+	.0	.6	1.6	1.0	.2	.0	.0	.0	.0	.0	3.4	
	TOT %	.3	1.7	3.4	1.4	.4	.1	.3	.4	.0	.2	8.3	
5<10	0-3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.8	.9	
	4-10	.5	.7	1.7	.6	.0	.4	.7	.4	.0	.0	4.0	
	11-21	.2	1.7	1.0	1.4	1.3	1.3	.2	.7	.0	.0	7.8	
	22+	.4	1.3	2.2	1.1	.5	.4	.3	*	.0	.0	6.4	
	TOT %	1.0	3.6	4.1	3.0	1.8	2.1	1.5	1.1	.0	.8	19.1	
10+	0-3	.7	.6	.5	.0	.3	.2	.2	.4	.0	4.3	7.6	
	4-10	3.4	5.7	2.4	2.1	2.0	2.0	2.7	4.1	.0	.0	24.4	
	11-21	5.2	5.3	3.3	2.5	1.3	1.2	1.2	3.6	.0	.0	23.6	
	22+	1.8	1.7	2.6	.7	.5	.0	.0	.6	.0	.0	8.9	
	TOT %	11.2	13.3	8.8	5.2	4.2	4.1	4.2	8.6	.0	4.5	64.1	
TOT OBS													
TOT PCT		13.6	19.7	19.4	10.8	6.9	7.1	6.4	10.4	.0	5.7	100.0	529

PERIOD: (PRIMARY) 1962-1977  
(OVER-ALL) 1929-1977

JANUARY

VALDEZ MARINE AREA  
59.8N 145.9W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND  
OCCURRENCE OF NM <3/8 BY HOUR

HOURL (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <3/8 ANY HGT	TOTAL OBS
00003	6.1	1.5	4.6	12.2	18.3	15.3	3.1	.8	.0	.0	61.8	38.2	131
06009	7.5	.9	4.7	3.7	21.5	12.1	.9	1.9	.0	.9	34.2	45.8	107
12015	11.3	.0	3.8	5.7	12.3	16.0	1.9	.0	.0	.0	50.9	49.1	106
18021	6.1	2.0	4.1	6.1	26.5	15.3	5.1	.0	1.0	.0	66.3	33.7	98
TOT	34	5	19	32	86	65	12	3	1	1	258	184	442
PCT	7.7	1.1	4.3	7.2	19.5	14.7	2.7	.7	.2	.2	58.4	41.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	4.2	1.8	3.0	6.0	21.0	64.1	167
06009	3.8	3.1	3.8	4.6	22.3	62.3	130
12015	3.7	2.2	1.5	13.3	12.6	66.7	135
18021	2.5	.8	3.4	11.0	19.5	62.7	118
TOT	20	11	16	47	104	352	550
PCT	3.6	2.0	2.9	8.5	18.9	64.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NM >4/8), BY HOUR

HOURL (GMT)	<150 <5000	<600 <1	<1000 <3	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	6.3	14.2	31.5	32.3	36.2	127
06009	7.5	16.0	24.5	31.1	44.3	106
12015	11.4	17.1	29.5	23.8	46.7	105
18021	6.3	14.7	27.4	41.1	31.6	95
TOT	34	67	123	138	172	433
PCT	7.9	15.5	28.4	31.9	39.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.0	.0	.5	.0	.0	.0	1	.5
45/49	.0	.0	.0	.5	.0	.0	2.3	2.7	12	5.4
40/44	.0	.5	.0	.5	1.4	4.1	5.4	12.6	54	24.3
35/39	.0	.0	.0	1.8	1.8	4.5	9.5	23.0	90	40.5
30/34	.0	.0	.9	.5	1.8	2.3	5.4	9.0	44	19.8
25/29	.0	.0	.0	.0	.5	1.8	2.3	1.8	14	6.3
20/24	.0	.0	.0	.0	.0	.0	.0	.9	2	.9
15/19	.0	.0	.0	.0	.0	.0	.5	1.8	5	2.3
TOTAL	.0	1	2	7	13	28	56	115	222	100.0
PCT	.0	.5	.9	3.2	5.9	12.6	25.2	51.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
.5	1.4	.9	.9	.8	.1	.0	.9	.0	.0	.0
.9	2.2	4.9	3.6	4.1	1.6	2.6	.9	.0	.5	.0
2.3	3.7	1.1	7.9	5.3	4.3	3.6	4.6	.0	1.8	.0
3.6	6.5	.8	.8	.5	2.5	1.5	3.9	.0	.0	.0
.0	4.6	.8	.0	.0	.5	.5	.0	.0	.0	.0
.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0
.0	.6	.3	.3	.0	.0	.0	.9	.0	.0	.0
7.2	20.8	16.8	13.4	10.6	9.1	8.1	11.7	.0	2.3	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	52	46	43	37	23	20	19	33.9	162
06009	48	46	43	36	21	19	18	34.4	125
12015	48	46	43	36	22	18	18	34.8	128
18021	46	44	41	36	21	8	8	34.5	117
TOT	52	46	43	36	21	18	8	35.0	532

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.8	6.3	14.3	27.0	47.6	86	63
06009	.0	8.6	1.7	13.8	27.6	48.3	86	58
12015	.0	1.9	1.9	11.3	26.4	58.5	89	53
18021	.0	1.9	13.0	9.3	18.5	57.4	88	54
TOT	0	10	13	28	57	120	87	228

## JANUARY

PERIOD: (PRIMARY) 1962-1977  
(OVER-ALL) 1929-1977

TABLE 17

VALDEZ MARINE AREA  
59.8N 145.9WPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	N FOG	MO FOG
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	1	.0	.2
6	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.9	.2	6	.2	1.1
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	1	.0	.2
4	.0	.0	.0	.0	.0	.0	.0	.0	.7	.9	.0	.0	7	.0	1.6
3	.0	.0	.0	.0	.0	.0	.0	.2	.7	.4	.0	.0	6	.0	1.3
2	.0	.0	.0	.0	.0	.2	.0	.0	2.4	.2	.0	.0	13	.0	2.9
1	.0	.0	.0	.0	.0	.0	.0	.9	.9	.2	.0	.0	9	.0	2.0
0	.0	.0	.0	.0	.2	.0	1.3	4.2	.9	.2	.0	.0	31	.2	6.7
-1	.0	.0	.0	.0	.0	.0	.2	4.7	.4	.0	.0	.0	24	.0	5.3
-2	.0	.0	.0	.0	.0	.0	.4	7.1	1.8	.0	.0	.0	42	.7	8.6
-3	.0	.0	.0	.0	.0	.0	.0	2.4	2.4	.7	.0	.0	25	.2	5.3
-4	.0	.0	.0	.0	.0	.0	.7	4.7	3.1	.4	.4	.0	42	.2	9.1
-5	.0	.0	.0	.0	.0	.0	1.1	3.5	3.1	1.1	.0	.0	40	.2	8.6
-6	.0	.0	.0	.0	.0	.0	1.1	.0	1.6	2.4	.4	.0	25	.2	5.3
-7/-8	.0	.0	.0	.0	.0	1.1	3.1	3.1	4.7	.2	.0	.0	55	.7	11.5
-9/-10	.0	.0	.0	.0	.0	.2	3.1	4.0	.9	.0	.0	.0	37	.7	7.5
-11/-13	.0	.0	.0	.0	.0	1.3	4.4	2.0	.2	.2	.0	.0	37	.0	8.2
-14/-16	.0	.0	.0	.9	1.1	2.0	1.3	.0	.0	.0	.0	.0	24	.0	5.3
-17/-19	.0	.0	.2	.9	.7	.7	.0	.0	.0	.0	.0	.0	11	.0	2.4
-20/-22	.0	.0	.0	.9	1.3	.0	.0	.0	.0	.0	.0	.0	10	.0	2.2
-23/-25	.2	.0	.0	.4	.2	.0	.0	.0	.0	.0	.4	.0	4	.0	.9
-26/-30	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	1		1	15	15	30	63	105	157	50	13	1	451	15	436
PCT	.2	.0	.2	3.3	3.3	6.7	14.0	23.3	34.8	11.1	2.9	.2	100.0	3.3	96.7

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.9	.7	.0	.0	.0	1.6	.0	.0	1.6	.9	.0	.0	.0	.0	2.6
1-2	.3	1.7	4.4	.3	.0	.0	8.5	.1	2.3	3.7	.0	.0	.0	.0	.0	9.0
3-6	.0	1.2	3.5	.3	.0	.0	5.0	.0	.1	1.7	1.0	.0	.0	.0	.0	2.9
7	.0	.4	1.2	.4	.0	.0	2.0	.0	.4	.0	1.1	.0	.0	.0	.0	1.5
8-9	.0	.0	.8	.4	.4	.0	1.6	.0	.0	.4	.8	.0	.0	.0	.0	1.2
10-11	.0	.0	.6	.0	.4	.0	1.2	.0	.0	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
29-30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
31-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.3	11.3	1.3	.8	.0	16.4	.1	4.4	6.8	3.0	.1	.0	.0	.0	14.3

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	3.9	.0	.0	.0	.0	3.9	.0	.0	.8	.0	.0	.0	.0	.0	.8
1-2	.0	2.7	1.5	.0	.0	.0	4.2	.0	.6	.4	.0	.0	.0	.0	.0	1.0
3-6	.0	.6	1.9	1.1	.0	.0	3.7	.0	1.3	.3	.0	.0	.0	.0	.0	1.8
7	.0	.0	.4	2.0	.4	.0	2.9	.0	.0	1.7	.1	.4	.0	.0	.0	2.3
8-9	.0	.0	.7	.2	1.1	.0	2.2	.0	.0	.3	1.2	.1	.0	.0	.0	1.9
10-11	.0	.0	.0	.8	.0	.0	1.4	.0	.0	.8	.4	.1	.0	.0	.0	1.3
12	.0	.0	.0	.0	.4	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.4
13-16	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.4	.1	.0	.0	.0	.3
17-19	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
29-30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
31-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.2	9.4	4.7	4.1	.0	21.4	.0	2.8	4.4	3.1	.7	.0	.0	.0	11.0

PERIOD: (OVER-ALL) 1963-1977

JANUARY

VALDEZ MARINE AREA  
59.8N 143.9W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.4	.0	.0	.0	.0	.4	.0	1.2	.0	.0	.0	.0	1.2	
1-2	.4	.7	.0	.0	.0	.0	1.1	.0	.5	1.3	.0	.0	.0	1.8	
3-4	.0	1.0	.8	.0	.0	.0	1.8	.0	.3	.1	.4	.0	.0	.8	
5-6	.0	.0	1.0	.4	.0	.0	1.4	.0	.5	.9	.4	.0	.0	1.8	
7	.0	.0	.4	.3	.0	.0	.7	.0	.0	.0	.1	.0	.0	.1	
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.4	.0	.0	.4	.0	.8	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	2.2	2.7	1.1	.0	.0	6.4	.0	3.0	2.4	.9	.4	.0	6.7	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.9	.0	.0	.0	.0	1.9	.0	1.8	.0	.0	.0	.0	1.8	
1-2	.0	1.1	1.0	.0	.0	.0	2.2	.0	.6	.7	.0	.0	.0	1.3	
3-4	.0	.7	.3	.7	.0	.0	1.7	.0	.4	.9	.1	.0	.0	1.4	
5-6	.4	.3	.0	.0	.0	.0	.7	.0	.0	1.2	.0	.0	.0	1.2	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	1.2	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	4.1	1.3	.7	.0	.0	6.6	.0	2.9	4.1	.5	.0	.0	7.5	92.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.8	12.7	1.6	.0	.0	.0	22.1	
1-2	.8	10.2	13.1	.0	.0	.0	24.2	
3-4	.0	5.7	9.8	3.7	.0	.0	19.3	
5-6	.4	1.6	6.6	4.5	.8	.0	13.9	
7	.0	.0	4.1	3.3	1.6	.0	9.0	
8-9	.0	.0	2.0	.4	2.0	.0	4.5	
10-11	.0	.4	.8	2.5	.4	.0	4.1	
12	.0	.0	.4	.4	.4	.0	1.2	
13-16	.0	.0	.0	.4	.4	.0	.8	
17-19	.0	.0	.0	.4	.0	.0	.4	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.4	.0	.4	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.0	30.7	38.5	15.6	6.1	.0	100.0	244

PERIOD: (OVER-ALL) 1950-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.7	12.6	11.7	6.6	2.5	1.4	1.4	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	173	4
6-7	.2	1.1	2.5	4.3	4.1	3.2	2.5	.2	1.1	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	87	7
8-9	.0	.2	2.5	3.4	2.5	.7	.7	.5	.5	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	64	7
10-11	.0	1.4	.7	.9	.9	.7	1.1	.9	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	8
12-13	.0	.0	1.1	.5	.0	.0	.2	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	10	7
>13	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	4	19
INDEX	10.1	1.4	1.4	.9	.7	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	65	1
TOTAL	57	73	87	73	51	35	27	11	13	3	1	4	0	2	0	0	0	0	0	437	5
PCT	13.0	16.7	19.9	16.7	11.7	8.0	6.2	2.5	3.0	.7	.2	.9	.0	.5	.0	.0	.0	.0	.0	100.0	

## FEBRUARY

PERIOD: (PRIMARY) 1962-1977  
(OVER-ALL) 1933-1977

TABLE 1

VALDEZ MARINE AREA  
59.7N 146.2W

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
N	6.6	.0	.0	.0	6.6	.0	.0	13.1	.0	.0	2.5	.0	.0	.0	84.4
NE	9.2	2.6	1.6	.0	8.2	.0	.0	19.0	6.9	.0	.0	.0	.3	.0	73.8
E	15.2	.0	6.6	.9	12.6	1.8	.0	34.9	10.2	.7	2.4	.0	.7	.9	50.3
SE	22.1	1.4	10.0	.0	7.6	.0	.0	39.0	9.0	.3	3.1	.0	.0	.0	48.6
S	4.6	.0	3.1	.0	8.4	2.3	.0	18.3	5.3	.0	2.3	.0	.0	.0	74.0
SW	18.9	.0	.0	.0	5.6	1.1	.0	21.1	1.1	.0	1.1	.0	.0	4.4	72.2
W	6.8	.0	.0	.0	2.5	.0	.0	9.3	5.9	.0	2.5	.0	.0	.0	82.2
NW	3.5	3.5	.0	.0	4.3	.0	.0	7.8	.0	.0	1.7	.0	.0	.0	90.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	2.1	6.3	.0	2.1	.0	.0	10.4	.0	.0	.0	.0	.0	.0	89.6
TOT PCT	11.2	1.1	4.4	.2	7.7	.7	.0	23.6	5.9	.2	1.8	.0	.2	.4	67.8
TOT OBS:	454														

TABLE 2

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GHT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
0000	10.2	.8	3.1	.0	3.1	.8	.0	16.5	7.9	.0	3.1	.0	.0	.0	72.4
0600	9.2	2.8	4.6	.0	13.8	.0	.0	27.5	1.8	.0	.9	.0	.0	.0	69.7
1200	13.1	.0	6.1	.0	7.1	1.0	.0	26.3	6.1	1.0	1.0	.0	.0	1.0	64.6
1800	11.6	.7	5.8	.7	7.2	.7	.0	25.4	8.0	.0	1.4	.0	.7	.7	63.8
TOT PCT	11.0	1.1	4.9	.2	7.6	.6	.0	23.7	6.1	.2	1.7	.0	.2	.4	67.7
TOT OBS:	473														

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21	
N	.9	2.3	1.9	1.0	.8	.0		6.9	15.4		8.3	.0	5.7	.0	7.1	.0	7.1	.0
NE	.5	6.8	5.6	2.0	1.6	.0		16.5	15.3		18.1	12.3	16.6	20.0	16.8	100.0	13.7	33.3
E	.6	5.7	5.7	7.7	4.7	.6		25.1	23.0		21.7	12.3	29.2	13.0	27.8	.0	23.9	33.3
SE	.2	2.2	5.9	5.2	1.7	.4		15.6	22.3		19.4	30.0	13.8	5.0	11.7	.0	14.8	.0
S	.6	2.1	3.2	1.3	.2	.0		7.5	14.3		5.8	23.0	7.7	20.0	8.2	.0	6.8	33.3
SW	.9	1.2	1.7	.7	.4	.0		4.8	14.3		4.4	.0	5.2	.0	4.8	.0	5.5	.0
W	.2	2.6	2.0	.9	.9	.0		6.6	16.5		5.0	.0	3.0	10.0	8.9	.0	9.2	.0
NW	.3	1.9	2.3	1.9	.2	.0		6.6	16.0		7.3	.0	3.0	30.0	8.4	.0	7.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.3							10.3	.0		10.0	.0	13.9	.0	6.1	.0	12.0	.0
TOT OBS	68	115	132	96	49	5	465		16.8		120	4	101	5	98	1	133	3
TOT PCT	14.6	24.7	28.4	20.6	10.5	1.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GHT)				
	0-6	7-16	17-27	28-40	41+						00	03	06	12	18
N	1.8	2.5	1.8	.8	.0			6.9	15.4		8.1	5.4	7.1	7.0	
NE	1.7	9.2	3.3	1.9	.1			16.5	15.3		17.9	16.7	17.7	14.2	
E	1.7	6.9	7.8	5.8	2.9			25.1	23.0		21.4	29.3	27.5	24.1	
SE	.9	5.5	4.7	3.2	1.3			15.6	22.3		20.4	13.3	11.6	14.5	
S	1.0	4.4	1.4	.6	.0			7.3	14.3		6.3	8.3	8.1	7.4	
SW	1.4	1.6	1.4	.3	.0			4.8	14.3		4.2	5.0	4.8	5.3	
W	1.3	2.8	1.1	1.3	.0			6.6	16.5		4.8	3.3	8.8	9.0	
NW	1.7	2.4	1.8	.5	.2			6.6	16.0		7.1	4.2	8.3	6.8	
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
CALM	10.3							10.3	.0		9.7	13.2	6.1	11.8	
TOT OBS	102	104	110	68	21	465			16.8		124	106	99	136	
TOT PCT	21.9	35.3	23.7	14.6	4.5			100.0			100.0	100.0	100.0	100.0	

## FEBRUARY

PERIOD: (PRIMARY) 1962-1977  
(OVER-ALL) 1933-1977VALDEZ MARINE AREA  
59.7N 146.2W

TABLE 4

## PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	9.7	4.8	22.6	34.7	17.7	10.5	.0	15.8	100.0	124
0600Z	13.2	3.8	24.3	25.5	24.5	8.5	.0	16.2	100.0	106
1201Z	6.1	4.0	30.3	29.3	13.2	12.1	3.0	17.8	100.0	99
1802Z	11.8	4.4	22.8	24.3	24.3	11.0	1.3	17.4	100.0	136
TOT	48	20	115	132	96	49	3	16.8		465
PCT	10.3	4.3	24.7	28.4	20.6	10.5	1.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.6	1.3	1.9	1.5		4.4
NE	3.7	1.7	4.3	7.7		5.6
E	1.7	.7	4.6	17.7		7.0
SE	.3	.1	3.3	10.0		7.3
S	.3	1.3	1.9	4.0		6.4
SW	.3	.3	1.1	2.3		6.7
W	1.0	1.3	1.9	1.9		5.3
NH	2.7	.7	.9	1.3		3.5
VAR	.0	.0	.0	.0		.0
CALM	5.4	.9	.3	6.6		4.6
TOT OBS	60	28	68	178	334	5.9
TOT PCT	18.0	8.4	20.4	53.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.3	.0	.0	.3	1.7	.5	.0	.0	.0	.0	4.4	
NE	.7	.1	.7	1.5	2.2	4.6	1.0	.0	.0	.0	6.6	
E	5.2	.8	1.3	3.1	4.3	6.0	.2	.0	.0	.0	9.7	
SE	3.0	.0	1.9	1.7	2.9	2.4	.0	.3	.0	.0	1.7	
S	1.0	.2	.0	1.1	2.5	.5	.0	.0	.0	.0	2.2	
SW	1.1	.1	.0	.6	.5	.9	.1	.0	.0	.0	.9	
W	.7	.0	.3	.6	.5	.3	.4	.0	.3	.0	2.9	
NH	.4	.0	.0	.3	1.2	.0	.3	.0	.0	.0	3.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.3	.6	1.2	4.2	.6	.0	.0	.0	6.3	
TOT OBS	42	4	15	33	57	65	9	0	2	0	107	334
TOT PCT	12.6	1.2	4.5	9.9	17.1	19.5	2.7	.0	.6	.0	32.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>OR >6500	.6	.6	.6	.6	.6	.6	.6	.6
>OR >5000	.6	.6	.6	.6	.6	.6	.6	.6
>OR >3500	2.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2
>OR >2000	17.2	21.2	22.1	22.7	23.0	23.0	23.0	23.0
>OR >1000	26.7	35.2	38.1	39.8	40.4	40.4	40.4	40.4
>OR >600	32.3	42.4	47.7	49.4	50.0	50.0	50.0	50.0
>OR >300	32.3	44.8	51.7	53.5	54.1	54.1	54.1	54.1
>OR >150	32.3	45.1	52.0	54.1	54.7	54.7	54.7	54.7
>OR >0	33.7	49.1	59.9	62.2	64.8	66.6	68.3	68.3
TOTAL	116	169	206	214	223	229	233	233

TOTAL NUMBER OF OBS: 344

PCT FREQ NH &lt;5/8: 31.7

TABLE 7A

## PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	12.1	4.9	7.7	3.3	5.1	4.6	10.5	6.4	33.4	11.8	389

PERIOD: (PRIMARY) 1962-1977  
(OVER-ALL) 1933-1977

FEBRUARY

VALDEZ MARINE AREA  
59.7N 146.2W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.3	1.2	.3	.0	.0	.0	.0	.0	.2	2.0	
	NO PCP	.0	.0	.6	.3	.2	.1	.2	.1	.0	.0	1.3	
	TOT %	.0	.3	1.8	.6	.2	.1	.2	.1	.0	.2	3.3	
1/2<1	PCP	.2	.2	1.7	.3	.0	.0	.0	.0	.0	.0	2.4	
	NO PCP	.0	.3	.2	.0	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.2	.5	1.9	.3	.0	.0	.0	.0	.0	.0	2.9	
1<2	PCP	.4	.3	1.0	.7	.0	.0	.0	.0	.0	.2	2.7	
	NO PCP	.0	.0	.4	.1	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.4	.3	1.4	.8	.0	.0	.0	.0	.0	.2	3.1	
2<5	PCP	.2	1.3	1.5	1.3	.5	.6	.2	.4	.0	.2	6.2	
	NO PCP	.2	.8	1.9	1.3	.3	.0	.2	.2	.0	.0	5.1	
	TOT %	.4	2.1	3.4	2.6	.8	.6	.4	.7	.0	.2	11.3	
5<10	PCP	.2	.7	2.7	2.4	.6	.5	.4	.1	.0	.2	7.7	
	NO PCP	.6	1.2	3.0	2.0	2.0	1.3	1.7	.3	.0	.9	13.1	
	TOT %	.8	1.9	5.6	4.4	2.6	1.8	2.1	.3	.0	1.1	20.8	
10+	PCP	.0	.4	.4	1.1	.4	.0	.2	.0	.0	.2	2.9	
	NO PCP	4.9	11.3	9.8	6.1	3.4	2.5	3.8	5.3	.0	8.6	55.8	
	TOT %	4.9	11.8	10.2	7.2	3.9	2.5	4.0	5.3	.0	8.8	58.6	
TOT OBS													452
TOT PCT		6.8	16.9	24.4	15.8	7.5	5.0	6.7	6.3	.0	10.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0	.4	
	11-21	.0	.2	.4	.0	.2	.1	.0	.0	.0	.0	.9	
	22+	.0	.1	1.4	.3	.0	.0	.0	.0	.0	.0	1.8	
	TOT %	.0	.3	1.8	.3	.2	.1	.2	.1	.0	.2	3.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	11-21	.0	.1	.5	.1	.0	.0	.0	.0	.0	.0	.7	
	22+	.0	.2	1.3	.3	.0	.0	.0	.0	.0	.0	2.0	
	TOT %	.2	.5	2.0	.3	.0	.0	.0	.0	.0	.0	3.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.2	.0	.2	.2	.0	.0	.0	.0	.0	.0	.7	
	22+	.2	.3	1.2	.3	.0	.0	.0	.0	.0	.0	2.2	
	TOT %	.4	.3	1.4	.8	.0	.0	.0	.0	.0	.2	3.1	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.2	.3	.2	.0	.0	.0	.0	.0	.0	.0	.9	
	11-21	.2	.5	.3	1.0	.3	.1	.2	.2	.0	.0	3.1	
	22+	.2	1.2	2.6	1.6	.5	.5	.2	.4	.0	.0	7.2	
	TOT %	.6	2.1	3.4	2.6	.8	.3	.4	.7	.0	.2	11.4	
5<10	0-3	.0	.2	.0	.0	.0	.2	.0	.0	.0	1.1	1.5	
	4-10	.4	.7	.9	.8	.3	.4	.6	.0	.0	.0	4.4	
	11-21	.2	.8	1.6	1.6	1.2	1.0	.9	.3	.0	.0	7.7	
	22+	.2	.3	3.2	2.0	.6	.2	.8	.0	.0	.0	7.2	
	TOT %	.8	2.0	5.8	4.4	2.6	1.6	2.1	.3	.0	1.1	20.8	
10+	0-3	.9	.3	.4	.2	.7	.7	.2	.3	.0	8.8	12.3	
	4-10	1.4	3.5	4.2	1.3	1.4	.8	2.1	1.8	.0	.0	18.2	
	11-21	1.4	4.2	2.2	3.1	1.6	.3	.9	1.8	.0	.0	15.8	
	22+	1.2	1.6	3.2	2.8	1.2	.3	.9	1.7	.0	.0	11.8	
	TOT %	4.8	11.7	10.1	7.1	3.9	2.3	4.0	3.4	.0	8.8	58.3	
TOT OBS													456
TOT PCT		6.9	16.8	24.3	15.7	7.4	4.9	6.7	6.3	.0	10.3	100.0	

## FEBRUARY

 PERIOD: (PRIMARY) 1962-1977  
 (OVER-ALL) 1933-1977

 VALDES MARINE AREA  
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TABLE 10

 PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND  
 OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000	150	300	450	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000Z	149	299	599	999	1999	3499	4999	6499	7999			89.5	36.5	104
0600Z	19.5	.0	3.4	9.2	12.6	20.7	1.1	.0	2.3	.0	69.0	31.0	87	
1201Z	17.6	.0	4.1	6.8	14.9	17.6	1.4	.0	.0	.0	62.2	37.8	74	
1802Z	9.6	1.9	2.9	10.6	17.3	21.2	1.9	.0	.0	.0	65.4	34.6	104	
TOT	47	4	15	35	60	68	9	0	2	0	240	129	369	
PCT	12.7	1.1	4.1	9.3	16.3	18.4	2.4	.0	.3	.0	65.0	35.0	100.0	

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
0000Z	1.6	1.6	2.4	11.9	24.6	57.9	126
0600Z	4.4	3.5	3.5	11.5	23.0	54.0	119
1201Z	5.9	3.0	2.0	13.9	20.8	54.5	101
1802Z	2.2	3.7	3.1	11.0	16.9	61.0	136
TOT	16	14	16	57	101	272	476
PCT	3.4	2.9	3.4	12.0	21.2	57.1	100.0

TABLE 12

 CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
 CEILING HGT (FEET, NM >4/8), BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
0000Z	7.2	14.4	30.9	37.1	32.0	97
0600Z	21.0	25.9	40.7	32.1	27.2	81
1201Z	18.1	23.6	33.3	31.9	34.7	72
1802Z	10.6	14.9	33.0	38.3	28.7	94
TOT	47	66	118	121	105	344
PCT	13.7	19.2	34.3	35.2	30.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.0	.0	.5	.0	.0	.0	1	.5
45/49	.0	.0	.0	.0	.5	1.0	1.5	2.5	11	5.4
40/44	.0	.5	.0	.0	2.5	6.4	8.8	8.3	54	26.5
35/39	.0	.5	.0	.0	2.0	3.9	11.3	24.0	85	41.7
30/34	.0	.0	.5	.5	1.0	4.9	4.4	2.5	28	13.7
25/29	.0	.0	.0	.5	1.0	3.4	1.0	3.4	19	9.3
20/24	.0	.0	.0	.0	.5	1.5	1.0	.0	8	2.9
TOTAL	0	2	1	2	16	49	57	83	204	100.0
PCT	.0	1.0	.5	1.0	7.8	21.1	27.9	40.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
50/54	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0
45/49	1.0	.1	2.2	1.1	.4	.1	.0	.0	.0	.5
40/44	1.8	2.0	8.8	7.0	3.2	1.5	1.2	.5	.0	.5
35/39	3.6	8.3	11.4	7.1	4.3	1.8	1.0	2.2	.0	2.0
30/34	1.0	1.6	2.6	1.2	.9	1.8	2.0	1.2	.0	1.5
25/29	1.3	1.6	1.0	1.1	.4	.5	.0	2.5	.0	1.0
20/24	.5	.5	.5	.5	.0	.0	.0	.0	.0	1.0
TOTAL	9.2	16.6	26.5	18.0	9.1	5.8	4.2	6.4	.0	6.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	48	47	46	37	27	21	21	37.2	123
0600Z	51	50	45	37	25	16	18	35.6	111
1201Z	52	51	43	36	26	18	18	36.2	100
1802Z	48	46	44	37	27	22	22	36.2	136
TOT	52	48	43	37	26	21	18	36.4	470

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	1.6	8.2	27.9	16.4	45.9	84	61
0600Z	.0	3.8	5.8	19.2	30.8	40.4	83	52
1201Z	.0	2.2	11.1	17.8	28.9	40.0	84	45
1802Z	.0	1.9	5.6	16.7	35.2	40.7	86	54
TOT	0	5	16	44	58	89	83	212

## FEBRUARY

PERIOD: (PRIMARY) 1962-1977  
(OVER-ALL) 1933-1977

VALDEZ MARINE AREA  
59.7N 146.2W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	N FOG	MD FOG
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.6
7/8	.0	.0	.0	.0	.0	.0	.0	.3	.3	2	.0	.6
6	.0	.0	.0	.0	.0	.0	.0	.3	.0	1	.0	.3
5	.0	.0	.0	.0	.0	.0	.0	1.4	.0	5	.0	1.4
4	.0	.0	.0	.0	.0	.3	.3	.8	.0	5	.0	1.4
3	.0	.0	.0	.0	.0	1.4	.8	.3	.0	9	.0	2.5
2	.0	.0	.0	.0	.0	.0	1.4	.6	.3	8	.0	2.2
1	.0	.0	.0	.0	.3	2.5	1.1	.6	.0	16	.0	4.4
0	.0	.0	.0	.0	1.1	8.3	2.2	.0	.0	42	.0	11.6
-1	.0	.0	.0	.0	2.2	9.9	1.7	.6	.0	30	.0	8.3
-2	.0	.0	.0	.0	3.3	9.9	1.1	.0	.0	30	.0	8.3
-3	.0	.0	.0	.0	4.7	3.3	.0	.3	.0	30	.3	8.0
-4	.0	.0	.0	.3	3.3	3.3	1.1	.0	.0	29	.0	8.0
-5	.0	.0	.0	.6	3.4	3.0	.0	.0	.0	26	.0	7.2
-6	.0	.0	.0	1.1	2.2	2.8	.3	.0	.0	23	.0	6.4
-7/-8	.0	.0	.0	3.0	3.0	1.1	.3	.0	.0	34	.0	9.4
-9/-10	.0	.0	1.4	1.7	2.5	.6	.3	.0	.0	29	.3	6.1
-11/-13	.0	.3	3.3	2.5	1.7	.0	.0	.0	.0	28	.0	7.7
-14/-16	.0	.3	1.7	.0	.8	.0	.0	.0	.0	10	.0	2.8
-17/-19	.6	1.1	.3	.0	.0	.0	.0	.0	.0	7	.0	1.9
-20/-22	.3	.3	.0	.0	.0	.0	.0	.0	.0	2	.0	.6
TOTAL	3	7	24	111	129	17	3	362		100.0	.6	99.4
PCT	1.8	1.9	6.6	9.1	30.7	35.6	9.7	4.7	.8			

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.5	.0	.0	.0	.0	1.0	.0	2.5	.0	.0	.0	.0	2.5
1-2	.0	1.3	.0	.0	.0	.0	1.3	.0	1.9	.3	.0	.0	.0	2.4
3-4	.0	.0	.9	.0	.0	.0	.9	.0	1.3	1.1	.1	.0	.0	2.8
5-6	.0	.0	.4	1.0	.0	.0	1.4	.0	1.1	1.1	.9	.0	.0	3.7
7	.0	.0	.0	.4	.0	.0	.4	.0	.0	.1	.1	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.3	.1	.0	1.6
10-11	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	1.1	.0	1.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.0	.0	1.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	1.8	1.3	1.4	.4	.0	5.3	.0	7.1	.9	2.2	2.9	.0	16.1

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.0	.0	.0	.0	.0	2.0	.0	.3	.0	.0	.0	.0	.3
1-2	.0	3.2	.0	.0	.0	.0	3.2	.0	.8	.0	.0	.0	.0	.8
3-4	.0	1.5	2.3	1.4	.0	.0	5.2	.0	.3	2.3	.0	.0	.0	2.8
5-6	.0	.9	.3	2.4	1.5	.0	5.3	.0	.3	1.1	2.8	.3	.0	4.9
7	.0	.0	.4	.3	1.4	.0	2.3	.0	.0	1.0	2.0	.1	.3	3.7
8-9	.0	.0	.3	.4	.9	.0	1.8	.0	.0	.0	.1	.3	.0	.6
10-11	.0	.0	.3	1.4	.0	.0	1.9	.0	.0	.0	.6	.3	.0	1.1
12	.0	.0	.0	.3	.3	.0	1.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	1.0	.4	.3	1.9	.0	.0	.3	.1	.0	.3	1.1
17-19	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.3	.1	.0	.6
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.6	4.2	7.6	5.1	.3	25.0	.0	2.3	4.9	6.2	2.3	1.0	16.8

PERIOD: (OVER-ALL) 1963-1977

FEBRUARY

TABLE 18 (CONT)

VALDEZ MARINE AREA  
59.7M 146.2M

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.5	.9	.0	.0	.0	.0	1.4	.0	.3	.0	.0	.0	.0	.3
3-4	.0	.3	1.9	.0	.0	.0	2.4	.0	.3	.3	.0	.0	.0	1.0
5-6	.0	.0	.9	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.5
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.0	.6	.0	.1	.0	.8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.3	.1	.0	1.3
12	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	1.4	3.2	.8	.0	.0	5.8	.0	.8	1.8	.6	.8	.0	3.9

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.3	.3	.0	.0	.0	1.0	.0	.3	.0	.0	.0	.0	.3	
1-2	.0	.9	1.0	.0	.0	.0	.9	.0	.3	2.0	.0	.0	.0	2.3	
3-4	.0	1.0	1.4	.4	.0	.0	2.8	.0	.0	1.8	1.1	.0	.0	2.9	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
7	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.4	.0	.4	.0	.8	.0	.0	.0	.3	.0	.0	.3	
12	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.4	3.3	.9	1.3	.0	7.9	.0	1.0	3.8	2.2	.0	.0	7.0	87.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

MGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	12.6	6.6	.3	.0	.0	.0	19.7	
1-2	.5	9.6	2.3	.0	.0	.0	12.6	
3-4	.0	9.8	12.1	3.0	.0	.0	20.7	
5-6	.0	2.5	4.0	7.6	2.8	.0	16.7	
7	.0	.0	1.3	3.3	2.0	.3	7.6	
8-9	.0	.0	2.3	1.3	2.3	.0	6.6	
10-11	.0	.0	1.3	3.0	2.3	.0	7.1	
12	.0	.0	1.0	1.3	1.3	.0	4.0	
13-16	.0	.0	.3	1.3	.3	1.0	3.3	
17-19	.0	.0	.0	.3	.3	.0	1.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.3	.0	.3	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	13.1	24.2	26.3	22.2	12.6	1.3	100.0	198

PERIOD: (OVER-ALL) 1949-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	3.0	8.8	11.9	10.1	3.4	1.8	.9	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	133	4
6-7	.0	1.2	1.5	2.7	6.7	3.7	2.7	1.3	1.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	71	8
8-9	.0	.3	1.2	1.8	1.3	3.0	3.4	2.1	2.4	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	33	9
10-11	.0	.0	1.2	.9	.9	.3	1.2	.3	1.3	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	24	11
12-13	.0	.0	.6	.6	.0	.0	.3	.9	.6	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	11	11
>13	.0	.0	.0	.3	.3	.0	.9	.6	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	9	11
INDEX	6.7	.0	.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	1
TOTAL	32	34	55	54	44	29	31	19	21	3	2	1	1	1	1	0	0	0	0	328	6
PCT	9.8	10.4	16.8	16.5	13.4	8.8	9.5	5.8	6.4	.9	.6	.3	.3	.3	.3	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1962-1977  
(OVER-ALL) 1962-1977

MARCH

VALDEZ MARINE AREA  
59.7N 146.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZLN PCPN	HAIL	PCPN AT 06 TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG MEA
N	5.0	.0	2.5	.0	2.5	.0	.0	7.5	4.4	.0	.0	.0	.0	.0	88.1
NE	5.5	.4	6.3	.0	10.5	.0	1.6	20.3	13.3	.0	.0	.0	.4	.0	66.0
E	19.2	.9	10.3	.0	10.2	.0	.0	42.6	11.1	.0	2.0	.0	.9	.0	43.4
SE	11.7	3.8	6.7	.0	8.4	.0	.0	28.5	11.3	.0	.4	.0	.0	.0	59.8
S	2.7	2.1	2.7	.0	12.3	.0	2.7	20.5	22.6	.0	.0	.0	.0	.0	56.8
SW	.0	.0	.0	.0	7.6	.0	.0	7.6	21.2	.0	.0	.0	.0	3.4	67.8
W	4.5	.0	.0	.0	6.4	.0	.0	8.9	7.0	.0	.0	.0	.0	5.1	79.0
NW	3.1	.0	.0	.0	3.1	.0	.0	3.6	.6	.0	.0	.0	.0	.0	93.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	4.8	.0	.0	.0	.0	4.8	4.8	.0	.0	.0	4.8	.0	85.7
TOT PCT	7.9	1.0	6.0	.0	7.7	.0	.5	20.7	10.8	.0	.5	.0	.5	.7	66.8
TOT OBS:	416														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 06 TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG MEA
06003	8.7	.8	3.9	.0	11.0	.0	.0	22.0	11.8	.0	2.4	.0	.0	.0	63.8
06009	14.0	.0	6.5	.0	5.4	.0	.0	22.6	5.4	.0	.0	.0	1.1	1.1	69.9
12615	3.1	1.0	11.5	.0	6.3	.0	.0	20.8	9.4	.0	.0	.0	.0	2.1	67.7
18621	6.8	1.7	3.4	.0	7.7	.0	1.7	18.8	14.5	.0	.0	.0	.9	.0	65.6
TOT PCT TOT OBS:	8.1 433	.9	6.0	.0	7.9	.0	.5	21.0	10.6	.0	.7	.0	.5	.7	66.5

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	1.3	4.4	2.5	1.3	.0	.0		9.6	10.9	11.1	.0	12.4	.0	5.3	.0	9.6	.0
NE	.5	5.0	5.9	2.7	.6	.5		15.2	16.3	8.6	25.0	15.3	.0	12.1	.0	24.8	.0
E	.7	6.5	7.5	3.8	2.3	.2		20.8	18.3	20.3	75.0	22.3	.0	23.9	.0	17.5	.0
SE	.3	5.3	6.3	2.5	.6	.0		14.9	15.2	18.9	.0	11.3	.0	13.9	.0	14.0	50.0
S	.4	3.7	3.5	.9	.0	.0		8.5	12.6	11.3	.0	4.6	.0	6.8	.0	10.5	.0
SW	1.4	2.0	2.2	1.1	.2	.0		6.9	12.4	10.5	.0	2.4	.0	9.2	.0	5.0	.0
W	.4	4.2	2.9	1.1	.7	.0		9.2	13.6	6.6	.0	11.6	.0	9.5	.0	9.2	50.0
NW	.4	4.0	3.9	1.5	.0	.0		9.7	12.9	9.6	.0	12.6	.0	9.7	.0	7.5	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.2							5.2	.0	3.3	.0	7.5	.0	9.5	.0	1.8	.0
TOT OBS	43	149	148	63	19	3	427		14.0	122	1	93	0	95	0	114	2
TOT PCT	10.5	34.9	34.7	14.8	4.4	.7		100.0		100.0	100.0	100.0	.0	100.0	.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GHT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	3.7	3.9	1.4	.6	.0		9.6	10.9	11.0	12.4	5.3	9.5	
NE	1.5	8.4	3.5	1.3	.3		15.2	16.3	8.7	15.3	12.1	24.4	
E	2.9	8.0	4.9	4.4	.6		20.8	18.3	20.7	22.3	23.9	17.2	
SE	1.3	5.6	2.4	1.5	.0		14.9	15.2	18.7	11.3	13.9	16.7	
S	1.6	4.4	2.3	.2	.0		8.5	12.6	11.3	4.6	6.8	10.3	
SW	2.4	2.9	.8	.7	.1		6.9	12.4	10.4	2.4	9.2	5.0	
W	2.9	4.3	.9	.9	.1		9.2	13.6	6.6	11.6	9.5	9.9	
NW	1.9	5.5	1.9	.4	.0		9.7	12.9	9.6	12.6	9.7	7.3	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	5.2						5.2	.0	3.3	7.5	9.5	1.7	
TOT OBS	109	183	86	43	6	427		14.0	123	93	95	116	
TOT PCT	25.5	42.9	20.1	10.1	1.4		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1962-1977  
(OVER-ALL) 1942-1977

MARCH

VALDEZ MARINE AREA  
59.7N 146.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000	3.3	5.7	34.1	35.8	14.6	6.5	.0	14.3	100.0	123
0600	7.5	3.2	33.3	41.9	6.5	6.5	1.1	13.8	100.0	93
1200	9.5	7.4	37.9	27.4	15.8	2.1	.0	12.0	100.0	95
1800	1.7	5.2	34.5	33.6	20.7	2.6	1.7	13.8	100.0	116
TOT	22	23	149	148	83	19	3	14.0		427
PCT	5.2	5.4	34.9	34.7	14.8	4.4	.7	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	3.1	2.4	.9	2.8		4.2
NE	4.0	1.5	4.6	7.2		5.5
E	1.2	1.0	4.3	14.9		7.0
SE	.4	.8	3.2	8.8		7.1
S	1.3	.5	2.0	4.8		6.3
SW	.7	1.3	3.5	1.6		5.4
W	3.4	2.0	2.3	1.1		3.4
NW	4.8	1.1	1.8	.2		2.3
VAR	.0	.0	.0	.0		.0
CALM	1.6	.7	2.0	2.3		4.8
TOT OBS	63	34	75	133	305	5.5
TOT PCT	20.7	11.1	24.6	43.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <3/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <3/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.7	.0	.0	.7	1.1	.6	.0	.0	.3	.0	5.8	
NE	2.5	.0	1.1	1.1	2.6	2.1	.3	.7	.0	.0	6.9	
E	4.8	.0	1.2	3.7	3.1	2.9	.7	1.0	.3	.0	3.9	
SE	1.0	.0	.3	2.2	3.7	2.9	.3	.0	.3	.0	2.5	
S	.2	.0	.0	1.5	2.1	1.9	.0	.0	.0	.0	2.8	
SW	.4	.0	.0	.4	1.5	1.2	.7	.0	.0	.0	3.0	
W	.6	.0	.0	.0	.4	.4	.3	.0	.3	.0	6.7	
NW	.0	.0	.0	.3	.5	.3	.3	.0	.0	.0	5.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	.3	.0	.7	.7	2.0	.0	.3	.0	.0	2.3	
TOT OBS	32	1	8	32	48	44	8	7	4	0	121	305
TOT PCT	10.5	.3	2.6	10.5	15.7	14.4	2.6	2.3	1.3	.0	39.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
>5000	3.5	3.8	3.8	3.8	3.8	3.8	3.8	3.8
>3500	6.3	7.0	7.3	7.3	7.3	7.3	7.3	7.3
>2000	15.9	18.1	19.4	20.6	20.6	20.6	21.3	21.3
>1000	29.8	30.5	32.0	35.2	36.2	36.2	36.8	36.8
>400	29.2	38.7	42.5	45.1	46.0	46.0	46.7	46.7
>300	30.2	40.0	45.1	48.3	49.2	49.2	49.8	49.8
>150	30.2	40.3	45.4	48.6	49.3	49.3	50.2	50.2
>0	30.5	42.3	51.1	56.5	58.1	58.4	60.0	60.0
TOTAL	96	134	161	178	183	184	189	189

TOTAL NUMBER OF OBS: 315

PCT FREQ NH <3/8: 40.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	15.0	4.8	6.3	7.2	5.1	9.0	6.3	6.7	27.9	9.6	333

PERIOD: (PRIMARY) 1962-1977  
(OVER-ALL) 1942-1977

MARCH

VALDEZ MARINE AREA  
59.7N 146.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.4	.1	.0	.0	.2	.0	.0	.0	.7	
	NO PCP	.0	.0	.4	.1	.2	.2	.2	.0	.0	.0	1.2	
	TOT %	.0	.0	.8	.1	.2	.2	.5	.0	.0	.0	1.9	
1/2<1	PCP	.0	.7	.2	.0	.2	.1	.2	.0	.0	.0	1.4	
	NO PCP	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.0	1.2	.2	.0	.2	.1	.2	.0	.0	.0	1.9	
1<2	PCP	.2	.7	2.4	.6	.7	.0	.0	.0	.0	.0	4.6	
	NO PCP	.0	.1	.4	.2	.0	.1	.1	.0	.0	.2	1.2	
	TOT %	.2	.7	2.8	.8	.7	.1	.1	.0	.0	.2	5.8	
2<5	PCP	.2	1.0	2.5	1.1	.2	.2	.0	.0	.0	.2	5.5	
	NO PCP	.0	.5	.7	.4	.4	.5	.5	.0	.0	.0	2.9	
	TOT %	.2	1.4	3.2	1.5	.6	.7	.5	.0	.0	.2	8.4	
5<10	PCP	.2	.5	2.5	1.6	.4	.2	.0	.5	.0	.0	6.0	
	NO PCP	.7	.9	2.3	1.4	1.4	1.3	.7	.2	.0	.5	9.4	
	TOT %	.9	1.4	4.8	3.0	1.8	1.5	.7	.7	.0	.5	15.3	
10+	PCP	.0	.3	.7	1.0	.2	.0	.4	.1	.0	.0	2.6	
	NO PCP	8.2	10.3	8.0	8.2	5.0	4.4	7.0	8.9	.0	4.1	64.0	
	TOT %	8.2	10.6	8.6	9.1	5.2	4.4	7.4	8.9	.0	4.1	66.7	
TOT OBS													417
TOT PCT		9.6	15.4	20.5	14.6	8.8	7.1	9.4	9.7	.0	5.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.4	.1	.2	.0	.2	.0	.0	.0	1.0	
	11-21	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.2	.0	.0	.2	.2	.0	.0	.0	.7	
	TOT %	.0	.0	.8	.1	.2	.2	.5	.0	.0	.0	1.9	
1/2<1	0-3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.2	.0	.0	.0	.1	.2	.0	.0	.0	.5	
	11-21	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	22+	.0	.7	.2	.0	.0	.0	.0	.0	.0	.0	1.0	
	TOT %	.0	1.2	.2	.0	.2	.1	.2	.0	.0	.0	1.9	
1<2	0-3	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	.5	
	4-10	.2	.9	.2	.2	.2	.0	.0	.0	.0	.0	1.2	
	11-21	.0	.3	1.1	.1	.2	.0	.0	.0	.0	.0	1.7	
	22+	.0	.1	1.5	.8	.0	.1	.1	.0	.0	.0	2.6	
	TOT %	.2	.7	2.8	1.1	.7	.1	.1	.0	.0	.2	5.8	
2<5	0-3	.0	.0	.0	.1	.2	.0	.0	.0	.0	.2	.5	
	4-10	.0	.7	1.1	.5	.0	.5	.0	.0	.0	.0	2.9	
	11-21	.2	.5	1.0	.2	.2	.2	.5	.0	.0	.0	2.9	
	22+	.0	.3	1.2	.7	.2	.0	.0	.0	.0	.0	2.4	
	TOT %	.2	1.5	3.3	1.5	.6	.7	.5	.0	.0	.2	8.6	
5<10	0-3	.2	.0	.0	.2	.0	.5	.0	.0	.0	.5	1.4	
	4-10	.2	.1	1.5	1.0	.4	.1	.0	.2	.0	.0	3.6	
	11-21	.5	.2	1.4	1.5	.7	.5	.5	.5	.0	.0	5.7	
	22+	.0	1.1	1.8	.2	.7	.5	.2	.0	.0	.0	6.5	
	TOT %	.9	1.4	4.8	3.0	1.8	1.5	.7	.7	.0	.5	15.2	
10+	0-3	1.1	.3	.7	.0	.0	1.0	.4	.4	.0	4.3	8.1	
	4-10	3.9	3.7	3.1	3.2	2.9	1.5	3.8	3.8	.0		25.9	
	11-21	1.8	5.0	3.6	4.6	2.3	1.5	2.0	3.4	.0		24.2	
	22+	1.4	1.5	1.1	1.4	.0	.5	1.2	1.2	.0		8.3	
	TOT %	8.1	10.5	8.6	9.3	5.2	4.4	7.4	8.9	.0	4.3	66.5	
TOT OBS													421
TOT PCT		9.5	15.3	20.5	14.9	8.7	7.0	9.3	9.6	.0	5.2	100.0	

## MARCH

PERIOD: (PRIMARY) 1962-1977  
(OVER-ALL) 1962-1977

VALDEZ MARINE AREA  
59.7N 146.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND  
OCCURRENCE OF NH < 8/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	400 499	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 8/8 ANY HGT	TOTAL OBS
00603	7.2	1.0	2.1	6.2	21.6	15.5	1.0	2.1	.0	.0	56.7	43.3	97
06609	11.6	.0	2.9	10.1	10.1	17.4	4.3	2.9	1.4	.0	60.9	39.1	69
12615	16.9	.0	1.3	13.0	9.1	10.4	3.9	1.3	5.2	.0	61.0	39.0	77
18621	5.3	.0	6.6	11.8	18.4	11.8	5.3	2.6	.0	.0	61.8	38.2	76
TOT	32	1	10	32	49	44	11	7	5	0	191	128	319
PCT	10.0	.3	3.1	10.0	15.4	13.8	3.4	2.2	1.6	.0	59.9	40.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	2.4	1.6	7.1	7.9	19.0	61.9	126
06609	1.1	.0	4.3	9.6	12.8	72.3	94
12615	2.0	1.0	7.0	11.0	14.0	65.0	100
18621	2.5	4.2	5.1	8.5	13.6	66.1	118
TOT	9	8	26	40	66	289	438
PCT	2.1	1.8	5.9	9.1	15.1	66.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NH > 4/8), BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00603	7.3	11.5	25.0	31.3	43.8	96
06609	11.8	16.2	32.4	29.4	38.2	68
12615	17.1	19.7	36.8	26.3	36.8	76
18621	4.0	14.7	26.7	34.7	38.7	75
TOT	31	48	94	96	125	315
PCT	9.8	15.2	29.8	30.5	39.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
45/49	.0	.0	.0	.0	.0	1.9	.6	.6	5	3.1
40/44	.0	.0	.0	.6	.6	5.0	5.0	8.7	32	19.9
35/39	.0	.6	1.2	2.5	4.3	9.3	11.8	22.4	84	52.2
30/34	.0	.0	.0	.6	1.2	.6	3.6	11.2	31	19.3
25/29	.0	.0	.0	.6	1.2	.0	.0	1.2	5	3.1
20/24	.0	.0	.0	.0	.0	.0	.0	1.9	3	1.9
15/19	.0	.0	.0	.0	.0	.0	.0	.6	1	.6
TOTAL	0	1	2	7	12	27	37	75	161	100.0
PCT	.0	.6	1.2	4.3	7.5	16.8	23.0	46.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
.5	.6	.6	.6	.0	.0	.0	.0	.6	.0	.0
.6	2.6	3.3	4.3	4.3	2.6	.6	.6	.6	.0	.6
5.6	7.0	8.1	11.2	5.3	1.4	6.1	5.1	.0	2.5	.0
1.6	6.7	3.6	1.9	1.1	.8	2.6	1.1	.0	.0	.0
.0	2.5	.0	.0	.0	.0	.0	.6	.0	.0	.0
.0	.6	.0	.0	.0	.3	.3	.6	.0	.0	.0
.5	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
8.7	20.0	15.3	18.0	10.9	5.1	9.6	9.0	.0	3.1	

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	58	54	45	38	30	21	16	37.8	126
06609	46	45	42	36	30	18	18	35.9	85
12615	45	44	41	37	27	13	13	35.0	95
18621	45	44	43	36	27	22	22	35.7	114
TOT	58	46	43	37	28	20	13	36.2	420

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	9.3	4.7	23.3	27.9	34.9	82	43		
06609	.0	2.1	8.5	14.9	21.3	53.2	87	47		
12615	.0	3.6	7.1	14.3	21.4	53.6	86	28		
18621	.0	8.3	8.5	12.8	21.3	48.9	85	47		
TOT	0	10	12	27	38	78	85	165		

PERIOD: (PRIMARY) 1962-1977  
(OVER-ALL) 1942-1977

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VALDEZ MARINE AREA  
59.7N 140.0W

TABLE 17

PCT FREQ OF AIR TEMPERATUP (DEG F) AND THE OCCURENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	TOT	N FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	2	.0	.7
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	2	.0	.7
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	2	.0	.7
7/8	.0	.0	.0	.0	.0	.0	2.3	.0	.3	.0	.0	.0	8	.0	2.6
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	1	.0	.3
5	.0	.0	.0	.0	.0	.0	1.3	.3	.3	.0	.0	.0	6	.0	2.0
4	.0	.0	.0	.0	.0	.0	.3	2.0	.0	.0	.0	.0	7	.0	2.3
3	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	2	.0	.7
2	.0	.0	.0	.0	.0	.3	1.0	1.6	.0	.0	.0	.0	9	.0	3.0
1	.0	.0	.0	.3	.0	1.0	1.3	1.0	.3	.0	.0	.0	12	.0	3.9
0	.0	.0	.0	.0	.0	1.0	6.2	1.0	.3	.0	.0	.0	26	.0	6.5
-1	.0	.0	.0	.0	.0	.7	3.3	1.6	.0	.0	.0	.0	17	.3	5.2
-2	.0	.0	.0	.0	.0	1.6	5.6	1.0	.0	.0	.0	.0	25	.0	8.2
-3	.0	.0	.0	.0	.0	2.3	5.2	.9	.3	.0	.0	.0	25	.0	8.2
-4	.0	.0	.0	.3	.7	3.6	3.3	1.0	.0	.0	.0	.0	27	.0	8.9
-5	.0	.0	.0	.0	.3	4.3	5.2	.9	.0	.0	.0	.0	31	.0	10.2
-6	.0	.0	.0	.3	1.6	4.3	2.3	.0	.0	.0	.0	.0	26	.0	8.5
-7/-8	.0	.0	.0	.0	.0	3.6	5.6	.7	.0	.0	.0	.0	30	.0	9.8
-9/-10	.0	.0	.0	.7	1.6	3.6	.7	.0	.0	.0	.0	.0	20	.0	6.6
-11/-13	.0	.0	.0	.0	.0	2.6	.7	1.3	.0	.0	.0	.0	14	.0	4.6
-14/-16	.0	.0	.3	1.0	.7	.0	.0	.0	.0	.0	.0	.0	6	.0	2.0
-17/-19	.0	.3	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	9	.0	1.6
-20/-22	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.7
TOTAL	1	2	3	10	34	123	34	9	0	0	0	1	305	1	304
PCT	.3	.7	1.0	3.3	11.1	28.9	40.3	11.1	3.0	.0	.0	.3	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	1.0	.0	.0	.0	.0		1.0	.0	2.1	.3	.0	.0	.0		2.6
1-2	.0	2.0	.9	.0	.0	.0		2.9	.5	2.8	3.1	.0	.0	.0		6.4
3-4	.0	.0	1.4	.0	.0	.0		1.4	.0	1.5	2.1	.0	.0	.0		3.6
5-6	.0	.5	.5	.9	.0	.0		1.9	.0	.0	1.3	.1	.0	.0		1.4
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	1.0	.3	.0	.0		1.5
8-9	.0	.0	.5	.8	.0	.0		1.3	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.1	.0	.0	.0	.0	.0		.1
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	3.5	3.3	1.6	.0	.0		8.4	.5	6.5	8.0	.6	.0	.0		15.7

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	1.5	1.8	.0	.0	.0	.0		2.3	.0	1.1	.0	.0	.0	.0		1.1
1-2	.0	5.8	1.9	.0	.0	.0		7.7	.0	3.9	1.5	.0	.0	.0		5.4
3-4	.0	1.0	2.3	1.5	.0	.0		4.8	.0	.6	1.1	.0	.0	.0		1.8
5-6	.0	.8	3.3	.9	.0	.0		5.2	.0	.3	1.9	.0	.0	.0		2.1
7	.0	.0	.5	.4	.9	.0		1.8	.0	.0	.5	.1	.6	.0		1.3
8-9	.0	.0	.0	.0	1.0	.0		1.0	.0	.0	.5	1.0	.0	.0		1.5
10-11	.0	.0	.0	.5	.5	.0		1.0	.0	.0	.5	.0	.0	.0		.5
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.4	.0	.5	.0	.0		.9	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.5	.0	.0	.0		.5
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	1.5	9.7	6.2	3.8	2.4	.0		25.5	.0	3.9	6.5	1.1	.6	.0		14.2

PERIOD: (OVER-ALL) 1963-1977

MARCH

TABLE 18 (CONT)

VALDEZ MARINE AREA  
59.7N 146.0W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0	.0	.5	.0	.0	.0	.0	.5
1-2	.0	2.4	2.0	.0	.0	.0	4.4	.0	.0	.5	.0	.0	.0	.5
3-4	.0	.4	.5	.0	.0	.0	.9	.5	.6	.5	.5	.0	.0	2.1
5-6	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.8	3.8	.0	.0	.0	7.5	.5	1.1	1.6	1.0	.0	.0	4.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.5	.5	.0	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	.0	1.0	
1-2	.0	3.4	2.0	.0	.0	.0	5.4	.0	2.4	2.1	.0	.0	.0	4.5	
3-4	.0	.4	.5	.0	.0	.0	.9	.5	.5	.6	.0	.0	.0	1.6	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.6	.0	.0	1.1	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	1.3	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.4	.0	.0	.0	.4	.0	.0	.1	.0	.0	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	4.3	2.9	.5	.0	.0	8.2	.5	3.9	3.4	2.4	.0	.0	10.2	94.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.0	9.0	.5	.0	.0	.0	17.6	
1-2	.5	22.6	14.1	.0	.0	.0	37.2	
3-4	1.0	5.0	9.0	2.0	.0	.0	17.1	
5-6	.0	1.5	9.0	2.5	.0	.0	13.1	
7	.0	.0	2.5	1.5	1.5	.0	5.5	
8-9	.0	.0	1.0	3.0	1.0	.0	5.0	
10-11	.0	.0	.5	1.0	.5	.0	2.0	
12	.0	.0	.0	.5	.0	.0	.5	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.5	.0	.0	1.0	
20-22	.0	.0	.0	.5	.0	.0	.5	
23-25	.0	.0	.5	.0	.0	.0	.5	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.5	38.7	37.7	11.1	3.0	.0	100.0	199

PERIOD: (OVER-ALL) 1949-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FY) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.0	12.5	11.3	5.7	1.8	1.5	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	123	3
6-7	.0	1.2	6.9	6.3	3.0	3.6	3.3	1.2	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	87	6
8-9	.0	.6	1.5	1.5	3.3	3.3	1.8	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	7
10-11	.0	3.0	1.8	.9	1.2	.3	.9	.0	.9	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	31	6
12-13	.0	.0	2.1	1.5	.0	.9	.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	6
>13	.0	.0	.0	.6	.3	.3	.0	.3	.3	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	8	12
INDEX	6.0	.6	.0	.6	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	1
TOTAL	30	60	79	57	33	34	22	8	8	2	1	1	0	0	0	0	0	0	0	333	5
PCT	9.0	17.9	23.6	17.0	9.9	10.1	6.6	2.4	2.4	.6	.3	.3	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1960-1976  
(OVER-ALL) 1932-1976

APRIL

VALDEZ MARINE AREA  
59.7N 146.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG MEA
N	.0	.0	7.2	.0	7.2	.0	.0	14.4	3.1	.0	3.1	.0	.0	.0	79.4
NE	11.1	4.7	5.3	.0	7.0	.0	2.3	25.7	8.8	.0	.0	.0	.0	.0	65.3
E	17.2	1.0	6.0	.0	3.6	.0	1.9	27.8	9.1	.0	1.0	.0	1.7	.0	60.3
SE	19.1	2.7	6.4	.0	4.4	1.3	1.3	33.9	4.0	.0	3.4	.0	.3	.0	56.4
S	7.4	.0	9.3	.0	.0	.0	.0	16.7	7.4	.0	.0	.0	.0	.0	75.9
SW	.0	.0	.7	.0	.0	.0	.0	.7	.7	.0	6.6	2.9	.0	.0	89.0
W	2.1	2.1	2.1	.0	.0	.0	.0	6.3	7.8	.0	5.2	.0	.0	.0	80.7
NW	.0	.0	7.1	.0	.6	.0	.0	7.6	4.7	.0	1.2	.0	.0	.0	86.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	2.6	.0	.0	.0	.0	.0	2.6	2.6	.0	5.3	.0	.0	.0	89.5
TOT PCT	9.1	1.6	5.1	.0	2.7	.2	.9	18.5	6.0	.0	2.9	.2	.4	.0	71.9
TOT OBS:	449														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG MEA
0000	9.3	1.6	3.1	.0	2.3	.0	1.6	16.3	4.7	.0	2.3	.0	.8	.0	76.0
0600	9.4	2.6	4.3	.0	6.8	.0	.0	19.7	5.1	.0	3.4	.0	.0	.0	71.8
1200	9.7	.0	4.3	.0	2.2	1.1	2.2	18.3	7.5	.0	5.4	1.1	.0	.0	67.7
1800	8.9	3.2	8.9	.0	1.6	.0	.0	21.8	7.3	.0	3.2	.0	.8	.0	66.9
TOT PCT TOT OBS:	9.3 463	1.9	3.2	.0	3.2	.2	.9	19.0	6.0	.0	3.5	.2	.4	.0	70.8

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	.6	2.8	1.9	.3	.0	.0		5.6	10.9	4.0	.0	4.7	100.0	8.1	.0	5.3	.0
NE	1.2	4.2	2.0	1.4	.4	.2		9.4	13.8	9.7	.0	11.7	.0	6.7	.0	9.4	.0
E	1.3	6.7	7.3	3.4	2.0	.5		23.3	18.4	21.4	.0	19.6	.0	30.8	.0	23.8	.0
SE	.9	4.0	6.9	3.3	1.3	.2		16.4	17.9	19.6	.0	17.8	.0	14.2	.0	13.3	30.5
S	.4	4.6	3.7	2.2	.0	.0		8.9	11.3	8.7	.0	10.1	.0	9.4	.0	8.0	.0
SW	.7	4.3	2.2	.2	.0	.0		7.5	9.5	11.5	.0	4.3	.0	6.1	.0	7.4	.0
W	.6	5.6	2.9	1.3	.2	.0		10.6	12.3	10.3	.0	10.1	.0	9.7	.0	12.3	.0
NW	.3	5.4	2.3	1.2	.0	.0		9.6	12.0	9.9	.0	8.8	.0	9.4	100.0	8.8	30.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.6							8.6	.0	4.8	.0	12.6	.0	5.6	.0	11.5	.0
TOT OBS	67	171	133	60	18	4	453		13.3	126	.0	111	1	90	1	122	2
TOT PCT	14.8	37.7	29.4	13.2	4.0	.9		100.0		100.0	.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	1.6	2.9	.7	.3	.0		5.6	10.9	4.0	5.6	8.0	5.4		
NE	2.8	4.1	1.4	.9	.2		9.4	13.8	9.7	11.6	6.6	9.3		
E	3.1	10.1	6.4	4.7	.9		23.3	18.4	21.4	19.4	30.3	23.4		
SE	1.9	7.5	3.6	2.8	.6		16.4	17.9	19.6	17.6	14.0	13.9		
S	1.5	6.3	1.0	.0	.0		8.9	11.3	8.7	10.0	9.3	7.9		
SW	2.8	4.1	.6	.0	.0		7.5	9.5	11.5	4.3	6.0	7.3		
W	3.6	3.9	2.3	.8	.0		10.6	12.3	10.3	10.0	9.6	12.1		
NW	2.3	5.1	1.6	.6	.0		9.6	12.0	9.9	8.7	10.4	9.3		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	8.6						8.6	.0	4.8	12.3	5.3	11.3		
TOT OBS	128	200	71	46	8	493		13.3	126	112	91	124		
TOT PCT	28.3	44.2	15.7	10.2	1.8		100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1960-1976  
(OVER-ALL) 1932-1976

APRIL

VALDEZ MARINE AREA  
59.7N 146.4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)							PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+	MEAN		
0000	4.8	7.1	35.7	32.5	15.1	4.8	.0	14.2	100.0	126
0600	12.5	5.4	33.0	30.4	19.2	1.8	1.8	13.1	100.0	112
1200	5.5	8.8	40.7	30.8	11.0	2.2	1.1	12.7	100.0	91
1800	11.3	4.0	41.9	24.2	11.9	6.9	.8	13.1	100.0	124
TOT	39	28	171	193	60	18	4	13.3		459
PCT	8.6	6.2	37.7	29.4	13.2	4.0	.9	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBS	MEAN CLOUD COVER
N	3.5	.2	.2	1.0		2.7
NE	1.8	1.0	1.8	4.4		5.6
E	1.1	1.6	5.8	14.1		6.8
SE	1.0	1.0	3.2	12.5		6.9
S	.0	1.0	3.0	4.9		6.8
SW	2.0	1.8	2.1	3.0		5.1
W	3.9	1.0	1.6	2.3		3.9
NW	5.6	.3	1.5	1.9		3.1
VAR	.0	.0	.0	.0		.0
CALM	3.3	1.8	3.3	1.5		3.8
TOT OBS	75	33	76	154	338	5.5
TOT PCT	22.2	9.8	22.5	45.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.0	.0	.2	.2	.6	.0	.2	.0	.0	.0	3.7	
.0	.6	.1	.4	1.8	2.0	.1	.3	.0	.0	3.8	
1.6	.8	.6	3.1	3.8	5.9	1.2	.3	.3	.0	4.9	
.7	1.3	.6	1.6	5.1	5.1	.6	.0	.3	.0	2.4	
.6	.0	.2	1.1	2.2	2.7	.2	.0	.3	.0	1.6	
.4	.6	.1	.4	1.4	.6	.7	.0	.1	.0	4.7	
.2	.2	.0	.5	1.0	.5	.0	.3	.2	.0	3.8	
.0	.1	.0	1.0	1.2	.3	.0	.0	.0	.0	6.8	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.3	1.2	2.4	.3	.3	.0	.0	5.3	
12	12	6	29	62	46	11	4	4	0	137	338
3.6	3.6	1.8	8.6	18.3	19.5	3.3	1.2	1.2	.0	39.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
>5000	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
>3500	4.9	5.2	5.5	5.5	5.5	5.5	5.5	5.5
>2000	19.3	23.6	24.2	24.5	24.5	24.5	24.5	24.5
>1000	30.0	39.2	41.8	42.4	42.7	42.7	42.7	42.7
>600	33.7	45.8	49.6	50.7	51.0	51.0	51.0	51.0
>300	34.0	47.3	51.6	52.7	53.0	53.0	53.0	53.0
>150	34.9	48.7	54.2	55.6	56.5	56.5	56.5	56.5
>0	35.4	49.3	55.3	57.9	60.3	60.8	61.4	61.4
TOTAL	123	171	192	201	210	211	213	213

TOTAL NUMBER OF OBS: 347

PCT FREQ NH <5/8: 38.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	TOTAL OBS
16.9	9.1	4.6	4.8	6.7	6.7	9.4	7.3	34.9	372

PERIOD: (PRIMARY) 1960-1976  
(OVER-ALL) 1932-1976

APRIL

VALDEZ MARINE AREA  
59.7N 146.4W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.2	.0	.1	.2	.0	.0	.0	.4	
	TOT %	.0	.0	.0	.2	.0	.1	.2	.0	.0	.0	.4	
1/2<1	PCP	.0	.0	.6	.1	.0	.0	.0	.0	.0	.0	.7	
	NO PCP	.0	.4	.2	.2	.0	.0	.2	.1	.0	.0	1.1	
	TOT %	.0	.4	.8	.3	.0	.0	.2	.1	.0	.0	1.8	
1<2	PCP	.0	.4	.6	1.2	.4	.0	.0	.0	.0	.0	2.7	
	NO PCP	.0	.2	.2	.2	.0	.0	.2	.0	.0	.2	1.1	
	TOT %	.0	.7	.8	1.4	.4	.0	.2	.0	.0	.2	3.8	
2<5	PCP	.2	.5	2.3	1.4	.4	.1	.2	.3	.0	.0	5.3	
	NO PCP	.2	.5	.6	.7	.2	.2	.4	.1	.0	.2	3.1	
	TOT %	.3	1.0	2.8	2.2	.6	.3	.7	.3	.0	.2	8.5	
5<10	PCP	.4	.8	2.3	1.6	.4	.0	.4	.2	.0	.0	6.2	
	NO PCP	.3	1.1	4.2	1.2	.8	.3	.4	.2	.0	.4	9.1	
	TOT %	.7	1.9	6.6	2.8	1.3	.3	.9	.4	.0	.4	15.4	
10+	PCP	.2	.7	.8	1.3	.2	.0	.0	.2	.0	.2	3.8	
	NO PCP	4.1	4.8	11.6	8.4	6.5	7.0	8.6	8.4	.0	7.1	68.4	
	TOT %	4.3	5.5	12.4	9.7	6.7	7.0	8.6	8.6	.0	7.3	70.2	
TOT OBS													449
TOT PCT		5.4	9.5	23.5	16.6	9.0	7.6	10.7	9.5	.0	8.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.2	
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.2	.0	.1	.2	.0	.0	.0	.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0	.2	
	4-10	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.8	.3	.0	.0	.0	.1	.0	.0	1.1	
	TOT %	.0	.4	.8	.3	.0	.0	.2	.1	.0	.0	1.8	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.4	
	11-21	.0	.2	.2	.2	.2	.0	.0	.0	.0	.0	.9	
	22+	.0	.4	.6	.9	.2	.0	.0	.0	.0	.0	2.2	
	TOT %	.0	.7	.8	1.4	.4	.0	.2	.0	.0	.2	3.8	
2<5	0-3	.0	.0	.4	.0	.0	.0	.2	.0	.0	.2	.9	
	4-10	.0	.5	.4	.2	.0	.0	.4	.0	.0	.0	1.6	
	11-21	.2	.2	.4	1.1	.6	.3	.0	.3	.0	.0	3.1	
	22+	.2	.3	1.6	.8	.0	.0	.0	.1	.0	.0	2.9	
	TOT %	.3	1.0	2.8	2.2	.6	.3	.7	.3	.0	.2	8.4	
5<10	0-3	.0	.4	.0	.0	.0	.0	.0	.4	.0	.4	1.3	
	4-10	.3	.6	.8	.1	.6	.3	.2	.0	.0	.0	2.9	
	11-21	.2	.2	2.3	1.1	.7	.0	.4	.0	.0	.0	5.1	
	22+	.2	.6	3.3	1.7	.0	.0	.2	.0	.0	.0	6.0	
	TOT %	.7	1.9	6.3	2.8	1.3	.3	.9	.4	.0	.4	15.3	
10+	0-3	.6	.8	.9	.9	.4	.7	.2	.0	.0	7.3	11.8	
	4-10	2.3	2.7	5.6	3.3	4.0	4.2	4.9	3.4	.0		32.4	
	11-21	1.5	1.3	4.2	4.3	2.2	1.9	2.4	2.3	.0		20.2	
	22+	.0	.7	1.7	.9	.0	.2	1.3	1.2	.0		6.0	
	TOT %	4.3	5.5	12.4	9.6	6.7	6.9	8.3	6.8	.0	7.3	70.3	
TOT OBS													451
TOT PCT		5.6	9.5	23.4	16.3	9.0	7.3	10.6	9.6	.0	8.2	100.0	

## APRIL

PERIOD: (PRIMARY) 1960-1976  
(OVER-ALL) 1932-1976VALDEZ MARINE AREA  
59.7N 146.4W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND  
OCCURRENCE OF NM <3/8 BY HOUR

HOUR (GMT)	000 149	150 209	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <3/8 ANY HGT	TOTAL OBS
00603	2.1	4.2	1.1	7.4	16.8	22.1	3.2	.0	1.1	.0	57.9	42.1	95
06609	6.3	3.1	2.1	5.2	17.7	18.6	4.2	.0	1.0	.0	58.3	41.7	96
12615	5.6	7.0	2.8	9.9	18.3	12.7	2.8	.0	.0	.0	59.2	40.8	71
18621	5.4	.0	2.2	10.8	18.3	19.4	2.2	4.3	2.2	.0	64.5	35.5	93
TOT	17	12	7	29	63	66	11	4	4	0	213	142	355
PCT	4.8	3.4	2.0	8.2	17.7	18.6	3.1	1.1	1.1	.0	60.0	40.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	.8	.0	3.1	10.8	13.4	70.0	130
06609	.9	3.4	5.1	7.7	13.7	69.2	117
12615	1.1	4.3	3.2	8.6	12.9	69.9	93
18621	.8	2.4	4.0	7.2	17.6	68.0	125
TOT	4	11	18	40	70	322	465
PCT	.9	2.4	3.9	8.6	15.1	69.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <3/8 AND 5+	TOTAL OBS
00603	2.1	7.4	16.8	41.1	42.1	95
06609	6.3	12.6	23.2	35.8	41.1	95
12615	6.0	16.4	29.9	32.8	37.3	67
18621	5.6	7.8	21.1	45.6	33.3	90
TOT	17	37	77	136	134	347
PCT	4.9	10.7	22.2	39.2	38.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.0	.5	.5	1.5	.0	.0	5	2.5
45/49	.5	.0	.0	.5	.5	5.4	3.5	1.5	24	11.9
40/44	.0	.5	.5	.5	3.5	8.4	11.9	11.9	75	37.1
35/39	.0	.5	.0	.5	3.5	7.9	13.9	18.3	90	44.6
30/34	.0	.0	.5	.5	.5	.0	.5	2.0	8	4.0
TOTAL	1	2	2	5	17	47	60	68	202	100.0
PCT	.5	1.0	1.0	2.5	8.4	23.3	29.7	33.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
50/54	.0	.5	.5	.5	.0	.0	.5	.5	.0	.0
45/49	.5	.0	1.5	2.5	1.0	1.1	2.7	.1	.0	2.5
40/44	1.4	3.3	7.7	6.9	4.0	2.7	3.5	4.2	.0	3.5
35/39	3.1	5.8	12.5	3.7	4.3	5.3	3.6	4.7	.0	1.5
30/34	.0	1.0	.0	.0	.0	.5	.5	1.5	.0	.5
TOTAL	5.0	10.6	22.2	13.6	9.3	9.7	10.8	11.0	.0	7.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	52	51	48	41	35	30	30	41.4	109
06609	50	46	45	39	34	33	33	39.2	103
12615	46	45	43	38	33	32	32	38.1	80
18621	58	52	46	40	35	30	30	40.4	112
TOT	58	51	46	40	34	32	30	39.9	404

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	2.2	6.7	13.3	31.1	15.6	31.1	78	45		
06609	.0	3.4	8.6	24.1	32.8	31.0	82	58		
12615	.0	2.4	9.5	21.4	21.4	45.2	84	42		
18621	.0	6.2	3.1	16.9	38.5	35.4	84	65		
TOT	1	10	17	48	60	74	82	210		

PERIOD: (PRIMARY) 1960-1976  
(OVER-ALL) 1932-1976

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VALDEZ MARINE AREA  
59.7N 146.4W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	29 32	33 36	37 40	41 44	43 48	49 52	TOT	N FOG	NO FOG
11/13	.0	.0	.0	.0	.3	.3	2	.0	.7
7/8	.0	.0	.0	.0	.7	.7	4	.0	1.4
6	.0	.0	.0	.0	.3	.3	2	.0	.7
5	.0	.0	.0	.7	2.4	.7	11	.0	3.7
4	.0	.0	.3	2.4	1.0	.0	11	.0	3.7
3	.0	.0	.0	1.7	.3	.0	6	.0	2.0
2	.0	.0	2.0	2.7	2.4	.0	21	.0	7.1
1	.0	.3	3.1	4.4	1.0	.0	26	.3	8.5
0	.0	.3	3.1	3.4	.3	.0	23	.3	10.0
-1	.0	.3	3.4	4.1	.0	.0	23	1.0	6.0
-2	.0	1.7	8.1	2.0	.0	.0	35	.7	11.2
-3	.0	1.7	10.2	1.4	.0	.0	39	.3	12.9
-4	.0	.7	5.4	.0	.0	.0	18	.7	5.4
-5	.0	2.0	2.0	.3	.0	.0	13	.7	3.7
-6	.3	4.4	2.4	.0	.0	.0	21	.0	7.1
-7/-8	.0	2.7	3.4	.0	.0	.0	4	.0	1.4
-9/-10	.0	1.0	.3	.0	.0	.0	8	.0	2.7
-11/-13	.7	1.4	.0	.3	.3	.0	8	.0	2.7
TOTAL	3	135	75	27	6	295	12	283	
PCT	1.0	16.6	43.8	29.4	9.2	2.0	100.0	4.1	95.9

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	1.3	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	.9	.4	.0	.0	.0	.9	.0	1.1	.5	.1	.0	.0	1.7
3-4	.0	.0	.9	.0	.0	.0	.0	.0	.5	.0	.1	.0	.0	.7
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.1	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
81+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.9	1.3	.4	.0	.0	2.7	1.1	3.9	1.5	.4	.3	.0	9.4

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.9	.0	.0	.0	.0	1.9	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	3.2	5.0	.0	.0	.0	8.2	.0	1.5	.1	.0	.0	.0	1.6
3-4	.0	2.2	2.4	1.5	.0	.0	6.0	.0	1.2	4.4	.5	.0	.0	6.3
5-6	.0	.0	.9	.9	.0	.0	1.9	.0	.0	1.9	2.2	.0	.0	4.0
7	.0	.0	.0	1.6	.0	.0	1.6	.0	.0	.7	.5	1.1	.0	2.3
8-9	.0	.0	.0	2.3	.0	.0	2.3	.0	.0	.0	.5	.0	.0	.5
10-11	.0	.0	1.1	.5	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.4	.0	.4	.4	.0	.0	.5	.0	.1	.0	.7
13-16	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.5
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
81+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.3	9.4	6.9	.4	.4	24.3	.0	3.9	8.3	3.1	1.7	.1	19.2

PERIOD: (OVER-ALL) 1963-1976

APRIL

TABLE 18 (CONT)

VALDEZ MARINE AREA  
59.7N 146.4W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.5	1.1	.0	.0	.0	.0	1.6	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	2.3	2.2	.0	.0	.0	4.4	.0	.8	1.1	.0	.0	.0	1.9
3-4	.0	.4	2.0	.0	.0	.0	2.4	.0	.0	1.3	.0	.0	.0	1.3
5-6	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.9	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	3.8	6.3	.0	.0	.0	10.8	.0	2.0	2.6	.0	.0	.0	4.6

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	1.3	.0	.0	.0	.0	1.3	.0	2.2	.0	.0	.0	.0	2.2	
1-2	.0	1.1	.8	.0	.0	.0	1.9	.0	3.2	.8	.0	.0	.0	4.0	
3-4	.0	.0	1.3	.0	.0	.0	1.3	.0	1.1	1.9	.0	.0	.0	3.0	
5-6	.0	.0	.5	.5	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	1.1	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.5	.0	.0	.5	
10-11	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
13-16	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.6	3.2	1.1	.5	.0	7.4	.0	6.5	2.7	1.7	.0	.0	10.9	89.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.3	10.2	.0	.0	.0	.0	21.3	
1-2	.5	16.1	11.3	.0	.0	.0	28.0	
3-4	.0	5.9	15.1	2.2	.0	.0	23.1	
5-6	.0	.5	4.8	4.8	.0	.0	10.2	
7	.0	.0	1.6	2.2	1.1	.0	4.8	
8-9	.5	.0	.0	4.3	.0	.0	4.8	
10-11	.0	.0	2.2	.5	.5	.0	3.2	
12	.0	.0	.0	1.6	.0	.5	2.2	
13-16	.0	.0	.5	.0	1.1	.0	1.6	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.5	.0	.5	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.4	32.8	35.5	15.6	3.2	.5	100.0	186

PERIOD: (OVER-ALL) 1950-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
4-6	3.9	11.2	13.5	7.9	3.4	1.4	.0	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	133	4
6-7	.3	1.7	3.4	7.6	5.9	3.4	2.0	1.4	.6	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	94	6
8-9	.0	1.4	1.4	3.1	2.8	1.1	1.7	.8	.6	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	48	7
10-11	.0	1.4	.8	.6	.0	.3	.6	.3	.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	17	7
12-13	.0	.0	1.1	1.4	.0	.3	.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	7
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	10
INDEF	6.5	.6	.3	.6	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	1
TOTAL	38	38	73	73	43	23	18	12	12	1	3	0	0	0	0	0	0	0	0	336	5
PCT	10.7	10.3	20.5	21.1	12.1	6.5	5.1	3.4	3.4	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1962-1976  
(OVER-ALL) 1934-1976

MAY

VALDEZ MARINE AREA  
59.8N 146.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHMR	ORZL	FRZG PCPN	SNOW	OTHER PRSN PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG WEA
N	6.8	.0	.0	.0	.0	.0	.0	6.8	2.7	.0	2.0	.0	.0	.0
NE	19.7	.0	6.6	.0	2.4	.0	1.2	28.7	8.7	.0	1.5	.0	.0	.0
E	19.1	2.3	13.6	.0	1.8	.0	.0	35.0	8.0	.0	1.5	.0	.0	.0
SE	13.6	2.8	11.3	.0	.0	.0	.0	26.0	18.0	.0	1.9	.0	1.7	.0
S	8.6	.0	3.9	.0	.0	.0	.0	12.5	7.3	.0	.0	.0	.0	.0
SW	7.0	.0	2.1	.0	.0	.0	.0	9.1	6.2	.0	3.3	.0	.0	.0
W	.0	.0	.0	.0	.0	.0	.0	.0	2.6	.0	2.9	.0	.0	.0
NW	3.3	.0	.0	.0	.0	.0	.0	3.3	.8	.0	.0	.0	6.6	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.0	.0	4.3	.0	.0	.0	.0	7.5	.0	.0	9.0	.0	3.0	.0
TOT PCT	11.4	1.0	6.9	.0	.7	.0	.1	19.4	7.6	.0	2.5	.1	1.0	.0
TOT OBS:	682													69.4

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHMR	ORZL	FRZG PCPN	SNOW	OTHER PRSN PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG WEA
0000	12.8	.5	5.3	.0	1.1	.0	.0	19.1	8.0	.0	3.7	.5	1.6	.0
0600	11.7	.6	8.0	.0	.6	.0	.0	19.1	5.6	.0	1.2	.0	.6	.6
1200	10.9	1.1	6.0	.0	.0	.0	.5	17.9	4.9	.0	1.8	.0	1.6	.0
1800	9.5	1.9	8.2	.0	1.3	.0	.0	20.3	12.0	.0	3.8	.0	.0	.0
TOT PCT	11.3	1.0	6.8	.0	.7	.0	.1	19.1	7.5	.0	2.6	.1	1.0	.1
TOT OBS:	692													69.3

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18
N	.9	2.9	1.3	.1	.0	.1		5.4	9.1	3.0	.0	6.0	.0	8.1	.0	4.5	.0
NE	1.1	5.9	3.9	1.3	.0	.0		12.2	12.2	9.2	.0	11.6	.0	14.7	.0	14.0	16.7
E	1.3	7.3	9.9	3.8	1.3	.1		23.8	15.8	23.8	16.7	28.6	.0	20.2	.0	26.0	16.7
SE	.8	6.1	6.7	2.7	.6	.0		18.9	14.3	18.6	30.0	18.6	.0	11.7	.0	19.0	.0
S	.9	4.4	2.8	.3	.2	.0		8.6	10.4	8.1	.0	5.7	.0	12.1	37.3	7.6	16.7
SW	.7	5.5	2.6	.2	.0	.0		9.0	9.0	10.1	33.3	7.1	.0	8.9	12.5	8.3	30.0
W	.6	5.8	2.9	.4	.0	.0		9.9	9.6	10.1	.0	8.9	75.0	10.6	37.5	9.6	.0
NW	.6	2.4	1.0	.3	.1	.0		4.6	10.4	6.8	.0	4.6	23.0	3.8	12.5	2.6	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.8							9.8	.0	10.4	.0	10.6	.0	9.9	.0	8.4	.0
TOT OBS	116	277	213	62	16	2	686		11.3	193	3	138	1	182	2	134	3
TOT PCT	16.9	40.4	31.0	9.0	2.3	.3		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				03	06	12	18
N	2.2	2.7	.4	.0	.1		3.4	9.1	3.0	6.0	8.0	4.5
NE	2.5	6.6	2.4	.7	.0		12.2	12.2	9.0	11.3	14.3	16.0
E	4.2	9.9	6.3	2.6	.5		23.8	15.8	23.7	26.4	20.6	23.8
SE	3.2	8.4	4.1	.9	.3		16.9	14.3	18.1	18.7	11.3	18.6
S	3.0	4.9	.4	.3	.1		8.6	10.4	7.9	5.7	12.4	7.6
SW	4.2	4.0	.7	.0	.0		9.0	9.0	10.5	7.1	9.0	9.1
W	3.1	5.3	1.3	.0	.0		9.9	9.6	9.9	9.3	10.9	9.4
NW	2.0	1.7	.7	.1	.0		4.6	10.4	6.7	4.7	3.9	2.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	9.8						9.8	.0	10.2	10.7	9.8	8.3
TOT OBS	233	300	111	33	7	686		11.3	186	199	184	157
TOT PCT	34.3	43.7	16.2	4.8	1.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1962-1976  
(OVER-ALL) 1934-1976

MAY

VALDEZ MARINE AREA  
59.8N 146.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	10.2	5.9	26.0	32.8	11.8	2.7	.3	11.9	100.0	186
0600	10.7	6.3	44.0	28.9	6.9	3.1	.0	10.8	100.0	139
1200	9.8	9.2	44.0	28.3	6.5	1.6	.3	10.7	100.0	184
1800	8.3	7.0	37.6	34.4	10.8	1.9	.0	11.7	100.0	137
TOT	6.7	4.9	27.7	21.3	6.2	1.6	.2	11.3		686
PCT	9.8	7.1	40.4	31.0	9.0	2.3	.3	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.6	.9	1.2	1.7		4.6
NE	1.4	1.3	2.0	6.1		6.3
E	1.0	.9	4.8	16.9		7.2
SE	.6	.9	2.6	12.1		7.2
S	1.3	1.0	1.8	4.9		6.0
SW	2.2	.4	3.5	2.7		3.3
W	3.5	1.3	1.8	3.1		4.3
NW	2.0	.9	.8	.9		3.7
VAR	.0	.0	.0	.0		.0
CALM	3.2	.2	2.7	4.3		5.1
TOT OBS	93	42	117	303	555	6.0
TOT PCT	16.8	7.6	21.1	54.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3999	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.3	.8	.9	.0	.0	.0	.3	.0	3.0	
NE	.3	.4	.9	1.6	3.5	1.3	.9	.3	.2	.0	3.5	
E	.9	.1	2.5	4.4	4.7	4.7	.6	.9	.3	.0	4.5	
SE	.3	.2	.9	2.0	4.8	3.5	.9	.5	.2	.0	2.7	
S	.0	.0	.3	.9	2.2	1.6	.2	.5	.1	.0	3.3	
SW	.0	.0	.1	.5	1.6	1.6	.3	.4	.0	.0	4.0	
W	.5	.0	.3	.3	.9	.9	.4	.2	.3	.0	5.3	
NW	.0	.2	.0	.0	.7	.4	.0	.1	.0	.0	3.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.5	.0	.2	.9	.0	.0	.0	.0	.0	.0	5.4	
TOT OBS	17	3	30	63	120	77	21	18	10	0	194	555
TOT PCT	3.1	.5	5.4	11.7	21.6	13.9	3.8	3.2	1.8	.0	35.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)				OR			
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.3	1.8	1.8	1.8	1.8	1.8	1.8	1.8
>5000	3.6	5.0	5.0	5.0	5.0	5.0	5.0	5.0
>3500	5.9	8.8	9.0	9.0	9.0	9.0	9.0	9.0
>2000	15.1	20.1	22.3	22.5	22.5	22.7	22.7	22.7
>1000	30.6	40.6	44.2	44.4	44.8	44.8	44.8	44.8
>600	34.4	50.2	55.8	56.1	56.3	56.3	56.3	56.3
>300	36.5	53.4	61.2	61.5	61.7	61.9	61.9	61.9
>150	36.5	53.4	61.3	61.7	61.9	62.1	62.2	62.2
>0	36.7	54.5	62.3	63.8	64.6	64.6	64.6	64.7
TOTAL	204	303	352	355	356	358	359	360

TOTAL NUMBER OF OBS: 556

PCT FREQ NH <5/8: 33.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
12.4	4.3	5.3	6.8	6.6	4.8	9.2	7.1	40.8	606

MAY

PERIOD: (PRIMARY) 1962-1976  
(OVER-ALL) 1934-1976

TABLE 8

VALDEZ MARINE AREA  
59.8N 146.3WPERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.2	.4	.2	.1	.4	.0	.0	.0	.0	1.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.3	
	TOT %	.0	.2	.4	.2	.1	.4	.1	.0	.0	.0	1.6	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
	TOT %	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
1<2	PCP	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.6	
	NO PCP	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.1	.3	.4	.0	.0	.0	.0	.0	.0	.9	
2<5	PCP	.1	1.0	2.3	1.5	.3	.1	.0	.0	.0	.0	5.3	
	NO PCP	.0	.2	1.1	.9	.1	.2	.1	.0	.0	.0	3.2	
	TOT %	.1	1.1	3.4	2.4	.4	.3	.1	.0	.0	.0	8.6	
5<10	PCP	.1	1.5	4.2	1.4	.4	.2	.0	.0	.0	.3	8.1	
	NO PCP	.4	1.0	3.3	2.3	1.2	1.2	1.0	.2	.0	.7	11.3	
	TOT %	.5	2.5	7.4	3.9	1.5	1.4	1.0	.2	.0	1.0	19.4	
10+	PCP	.1	.8	1.3	.9	.2	.0	.0	.1	.0	.4	4.0	
	NO PCP	4.7	7.5	11.2	8.8	6.2	6.3	8.7	4.1	.0	7.4	63.0	
	TOT %	4.8	8.3	12.4	9.8	6.4	6.3	8.7	4.2	.0	7.8	67.0	
TOT OBS													678
TOT PCT		5.4	12.4	23.9	10.7	8.6	8.9	10.0	4.3	.0	9.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.3	
	4-10	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.2	.3	.1	.1	.4	.0	.0	.0	.0	1.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.2	.4	.2	.1	.4	.1	.0	.0	.1	1.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.1	.3	.0	.0	.0	.0	.0	.0	.4	
	22+	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.0	.1	.3	.4	.0	.0	.0	.0	.0	.0	.9	
2<5	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.7	
	4-10	.0	.3	.0	.2	.2	.2	.0	.0	.0	.0	.9	
	11-21	.1	.3	1.8	1.1	.0	.1	.1	.0	.0	.0	3.5	
	22+	.0	.6	1.6	1.0	.3	.0	.0	.0	.0	.0	3.5	
	TOT %	.1	1.1	3.4	2.4	.6	.3	.1	.0	.0	.0	8.7	
5<10	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	1.0	1.2	
	4-10	.3	1.2	1.3	1.1	.6	1.2	.7	.2	.0	.0	6.8	
	11-21	.1	1.0	3.6	1.6	.8	.2	.3	.0	.0	.0	7.6	
	22+	.1	.3	2.2	1.2	.1	.0	.0	.0	.0	.0	4.0	
	TOT %	.5	2.5	7.4	3.9	1.5	1.4	1.0	.2	.0	1.0	19.6	
10+	0-3	1.0	1.1	1.2	.7	.9	.7	.7	.3	.0	7.8	14.4	
	4-10	2.6	4.5	3.7	4.7	3.7	3.9	3.2	2.2	.0	.0	32.8	
	11-21	1.1	2.4	4.2	3.6	1.8	1.7	2.3	1.0	.0	.0	18.4	
	22+	.1	.3	1.4	.8	.0	.2	.4	.3	.0	.0	3.7	
	TOT %	4.8	8.3	12.5	9.7	6.4	6.4	6.7	4.2	.0	7.8	69.0	
TOT OBS													680
TOT PCT		5.4	12.3	24.0	10.7	8.6	8.9	10.0	4.4	.0	9.6	100.0	

## MAY

PERIOD: (PRIMARY) 1962-1976  
(OVER-ALL) 1934-1976

TABLE 10

VALDEZ MARINE AREA  
59.8N 146.3W

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND  
OCCURRENCE OF NM <3/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 899	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <3/8 ANY HGT	TOTAL OBS
00603	3.3	.7	6.0	10.0	18.7	16.7	3.3	3.3	2.7	.0	64.7	39.3	150
06609	2.2	.0	5.1	10.9	23.4	9.5	2.9	2.9	.0	.0	56.9	43.1	137
12615	3.1	.6	5.7	8.2	24.5	11.3	3.8	3.8	2.3	.0	63.5	36.5	159
18621	3.7	.7	3.7	16.4	17.9	15.7	5.2	2.2	1.3	.0	67.2	32.8	134
TOT	18	3	30	65	123	77	22	18	10	0	366	214	580
PCT	3.1	.5	5.2	11.2	21.2	13.3	3.8	3.1	1.7	.0	63.1	36.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	2.7	.5	1.1	9.7	22.0	64.0	186
06609	.6	.0	.6	6.2	22.4	70.2	161
12615	2.2	.0	1.1	5.4	17.9	73.4	184
18621	.6	.6	.6	13.9	14.6	69.6	158
TOT	11	2	6	60	133	477	689
PCT	1.6	.3	.9	8.7	19.3	69.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NM >4/8), BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ ANDS+	NM <5/8 AND 5+	TOTAL OBS
00603	2.8	10.3	28.3	37.2	34.5	145
06609	1.5	6.9	20.8	38.5	40.8	130
12615	2.6	9.2	20.4	46.1	39.6	152
18621	3.1	7.8	28.7	40.3	31.0	129
TOT	14	48	136	226	194	598
PCT	2.3	8.6	24.3	40.6	34.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.2	.0	.0	.0	.0	1	.2
59/59	.0	.0	.0	.2	1.1	.9	.5	.0	12	2.7
50/54	.0	.0	.2	.5	2.1	1.4	5.3	1.6	48	11.0
45/49	.0	.5	.0	.0	1.6	5.5	11.4	13.5	142	32.5
40/44	.0	.0	.0	.7	1.8	7.1	15.3	17.8	187	42.8
35/39	.0	.0	.0	.0	.2	.7	2.3	6.4	42	9.6
30/34	.0	.0	.0	.0	.0	.5	.2	.5	5	1.1
TOTAL	0	2	1	7	30	70	153	174	437	100.0
PCT	.0	.5	.2	1.6	6.9	16.0	35.0	39.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
.2	.1	.6	.1	.0	.2	.9	.1	.0	.7
.9	1.3	2.1	1.7	.2	1.4	1.3	.8	.0	1.4
1.1	3.5	6.6	6.0	3.5	3.0	2.6	1.1	.0	5.0
2.1	6.4	13.2	6.6	5.5	1.5	3.5	1.7	.0	2.3
.8	2.1	3.0	2.4	.5	.1	.0	.0	.0	.7
.2	.3	.4	.1	.0	.2	.0	.0	.0	.0
5.3	13.7	26.1	16.8	9.8	6.4	8.2	3.7	.0	10.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	61	58	55	45	37	35	33	45.7	181
06609	58	57	51	44	38	36	35	44.7	156
12615	55	53	50	42	36	34	33	42.8	181
18621	59	54	50	45	37	34	32	44.8	157
TOT	61	57	52	44	37	34	32	44.4	675

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	3.1	16.3	24.5	29.6	26.5	31	98
06609	.0	.8	3.3	12.5	37.3	45.8	38	120
12615	.0	2.6	5.3	13.2	42.1	36.8	36	114
18621	.0	2.8	3.7	14.7	31.2	47.7	37	109
TOT	0	10	30	70	156	175	85	441

PERIOD: (PRIMARY) 1962-1976  
(OVER-ALL) 1934-1976

MAY

TABLE 17

VALDEZ MARINE AREA  
59.8N 146.3W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT W FOG	NO FOG
17/19	.0	.0	.0	.0	.0	.2	.0	.0	1	.2
14/16	.0	.0	.0	.0	.0	.0	.4	.2	3	.6
11/13	.0	.0	.0	.4	.8	1.0	.2	.0	12	2.4
9/10	.0	.0	.2	.0	1.2	.4	.0	.0	9	1.8
7/8	.0	.4	.0	1.2	.4	.6	.6	.0	16	2.6
6	.0	.0	.2	.6	.2	.0	.0	.0	5	1.0
5	.0	.0	.6	2.2	1.6	.2	.2	.0	24	4.6
4	.0	.2	1.8	2.2	1.2	.2	.0	.0	28	5.6
3	.0	.0	2.2	2.2	1.2	.2	.0	.0	29	5.6
2	.0	.4	3.4	4.8	.8	.2	.0	.0	48	9.3
1	.0	1.0	4.6	2.2	.4	.0	.0	.0	41	8.1
0	.0	1.0	5.8	4.0	1.0	.2	.0	.0	59	11.5
-1	.0	2.0	6.5	1.6	.2	.2	.0	.0	34	6.7
-2	.2	2.6	5.6	2.6	.0	.0	.0	.0	35	10.5
-3	.2	2.2	3.6	.8	.0	.0	.0	.0	34	10.7
-4	.2	3.2	1.8	1.8	.2	.0	.0	.0	36	7.1
-5	1.2	1.6	.6	1.0	.0	.0	.0	.0	22	4.0
-6	.8	.8	.4	.0	.0	.0	.0	.0	9	1.8
-7/-8	.4	1.0	1.0	.0	.2	.0	.0	.0	13	2.6
-9/-10	.4	.0	.2	.2	.0	.0	.0	.0	5	.8
-11/-12	.0	.2	.0	.0	.0	.0	.0	.0	1	.2
TOTAL	17	83	193	47	17	7	1	1	304	492
PCT	3.4	16.5	30.3	27.6	9.3	3.4	1.4	.2	100.0	97.6

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.5	.3	.0	.0	.0	1.3	.2	1.4	.0	.0	.0	.0	1.6
1-2	.0	.2	.0	.0	.0	.0	.2	.0	2.8	2.3	.0	.0	.0	5.1
3-4	.0	.3	.0	.0	.0	.0	.3	.0	1.3	1.4	.3	.0	.0	3.0
5-6	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.4	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	1.1	.3	.2	.0	.0	2.1	.2	5.5	4.4	.7	.0	.0	10.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.3	.3	.0	.0	.0	2.5	.0	2.3	.3	.0	.0	.0	2.8
1-2	.2	3.8	4.3	.0	.0	.0	8.5	.4	1.3	1.7	.0	.0	.0	3.6
3-4	.0	.9	3.6	1.1	.0	.0	5.7	.1	2.2	3.9	.6	.0	.0	6.8
5-6	.0	.2	2.0	.6	.3	.0	3.2	.0	.9	.6	.4	.1	.0	2.0
7	.0	.3	.9	1.3	.0	.0	1.9	.0	.3	.7	.3	.3	.0	1.6
8-9	.0	.3	.9	.7	.3	.0	2.2	.0	.3	.1	.7	.0	.0	1.1
10-11	.0	.0	.0	.9	.0	.0	.9	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.7	.7	.0	1.3	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	8.0	11.3	5.2	1.6	.3	26.7	.5	7.7	7.8	2.0	.5	.0	18.0

PERIOD: (OVER-ALL) 1963-1976

MAY

TABLE 18 (CONT)

VALDEZ MARINE AREA  
59.8N 146.3W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	2.2	.0	.0	.0	.0	2.5	.0	1.6	.0	.0	.0	.0	1.6
1-2	.0	1.1	1.6	.0	.0	.0	2.6	.3	2.0	.8	.0	.0	.0	3.2
3-4	.2	.8	.8	.2	.0	.0	2.1	.0	.7	.4	.0	.0	.0	1.1
5-6	.0	.7	.0	.0	.2	.0	1.0	.0	.7	1.0	.0	.0	.0	1.7
7	.0	.0	.2	.3	.0	.0	.6	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	4.8	2.6	.6	.2	.0	8.9	.3	3.4	2.6	.3	.0	.0	8.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.3	.0	.0	.0	.0	1.3	.0	.2	.0	.0	.0	.0	.2	
1-2	.0	3.1	1.1	.0	.0	.0	4.2	.3	1.9	.7	.0	.0	.0	3.0	
3-4	.0	.2	2.0	.0	.0	.0	2.2	.0	.7	.2	.0	.0	.0	1.0	
5-6	.0	.2	.3	.0	.0	.0	.5	.0	.1	.7	.0	.0	.0	.7	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.3	.0	.3	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	4.9	3.9	.0	.0	.0	8.8	.3	2.9	1.6	.0	.3	.0	5.2	89.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	11.8	12.1	.7	.0	.0	.0	24.6	
1-2	1.3	16.4	12.8	.0	.0	.0	30.5	
3-4	.3	7.2	12.5	2.3	.0	.0	22.3	
5-6	.0	3.0	4.6	1.6	.7	.0	9.8	
7	.0	.7	1.6	2.0	.8	.0	4.6	
8-9	.0	1.0	2.0	1.3	.7	.0	4.9	
10-11	.0	.0	.0	1.0	.0	.0	1.0	
12	.0	.0	.0	.7	.7	.0	1.3	
13-16	.0	.0	.0	.3	.0	.3	.7	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.3	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	13.4	40.3	34.1	9.2	2.6	.3	100.0	305

PERIOD: (OVER-ALL) 1952-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.3	14.3	13.1	7.2	1.3	1.3	.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	230	3
6-7	.8	3.6	7.6	4.8	2.9	3.0	1.0	.6	.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	131	5
8-9	.2	1.0	4.6	2.5	1.3	.4	.2	.8	.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	62	5
10-11	.0	.8	.6	.6	.4	.4	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	7
12-13	.0	.0	1.1	.8	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	4
>13	.0	.0	.0	.4	.0	.4	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	6	11
INDET	8.0	1.9	1.5	.8	.0	.2	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	68	2
TOTAL	75	113	150	89	33	32	9	7	9	1	7	0	0	0	0	0	0	0	0	525	4
PCT	14.2	21.5	28.6	17.0	6.3	6.1	1.7	1.3	1.7	.2	1.3	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1962-1976  
(OVER-ALL) 1962-1976

JUNE

TABLE 1

VALDEZ MARINE AREA  
59.8N 146.3W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG MO PCPN	FOG MO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	15.8	.0	3.3	.0	.0	.0	.0	21.1	3.9	.0	.0	.0	.0	.0	75.0
NE	10.0	.5	10.0	.0	.0	.0	.0	17.5	13.3	.0	5.7	.0	.0	.0	62.5
E	11.3	3.4	9.5	.0	.0	.0	.0	20.8	20.8	.8	4.8	1.3	.0	.0	51.5
SE	5.5	.3	8.5	.0	.0	.0	.0	14.2	14.5	.0	6.3	1.4	1.1	.0	62.6
S	8.6	.0	7.9	.0	.0	.0	.0	14.5	9.6	.0	1.8	.0	1.8	.0	72.4
SW	7.6	.0	2.9	.0	.0	.0	.0	10.5	1.8	.0	4.4	1.5	.4	.0	81.3
W	.0	.0	1.7	.0	.0	.0	.0	1.7	.0	.0	.7	.0	.7	2.0	94.8
NW	.0	.0	1.4	.0	.0	.0	.0	1.4	.0	.0	1.4	.0	.0	.0	97.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.7	.0	5.6	.0	.0	.0	.0	7.4	3.7	.0	7.4	.0	1.9	.0	79.6
TOT PCT	6.6	.8	6.4	.0	.0	.0	.0	12.6	9.6	.2	4.0	.7	.7	.3	71.8
TOT OBS:	593														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG MO PCPN	FOG MO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
0000Z	3.0	1.5	3.0	.0	.0	.0	.0	7.4	8.9	.0	2.2	.0	1.5	.0	80.0
0600Z	7.6	1.4	7.6	.0	.0	.0	.0	15.9	7.6	.0	6.2	.0	.0	.0	70.3
1201Z	7.1	.0	5.1	.0	.0	.0	.0	11.5	11.5	.6	2.6	1.3	.6	.6	71.2
1802Z	8.0	.6	9.8	.0	.0	.0	.0	15.3	9.8	.0	5.5	1.2	.6	.6	66.9
TOT PCT	6.5	.8	6.5	.0	.0	.0	.0	12.7	9.5	.2	4.2	.7	.7	.3	71.8
TOT OBS:	599														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	.7	2.2	.3	.0	.0	.0		3.2	6.4	3.5	.0	2.2	.0	3.8	.0	2.5	50.0
NE	.5	4.5	2.6	1.0	.2	.0		8.8	11.9	6.2	.0	6.5	.0	9.9	.0	12.4	.0
E	1.7	6.8	9.1	3.6	.8	.0		21.9	14.7	17.9	.0	22.6	.0	21.8	.0	25.2	.0
SE	.3	8.5	6.4	.3	.0	.0		15.5	10.7	17.7	.0	14.5	.0	18.2	.0	12.1	.0
S	1.7	6.1	1.8	.2	.0	.0		9.7	8.1	10.1	.0	10.2	.0	8.0	.0	10.8	.0
SW	.7	7.0	3.6	.2	.0	.0		11.6	9.9	17.2	.0	14.5	.0	8.9	.0	6.8	.0
W	1.9	8.9	5.9	.3	.2	.0		17.3	10.3	14.2	.0	19.7	.0	15.1	.0	19.9	.0
NW	.5	1.7	.8	.0	.0	.0		3.0	8.6	1.3	.0	4.4	.0	2.9	.0	2.5	50.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.0							9.0	.0	11.9	.0	3.4	.0	11.5	.0	7.6	.0
TOT OBS	102	273	182	33	7	0	597	10.1		134	0	147	0	157	0	157	2
TOT PCT	17.1	45.7	30.5	5.5	1.2	.0		100.0		100.0	.0	100.0	.0	100.0	.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	2.1	.9	.1	.0	.0	.0		3.2	6.4	3.5	2.2	3.8	3.1
NE	2.6	4.3	1.5	.5	.0			8.8	11.9	6.2	6.5	9.9	12.3
E	3.6	10.3	5.4	2.5	.0			21.9	14.7	17.9	22.6	21.8	24.8
SE	3.4	10.3	1.6	.2	.0			15.5	10.7	17.7	14.5	18.2	11.9
S	3.9	5.4	.3	.2	.0			9.7	8.1	10.1	10.2	8.0	10.7
SW	3.8	6.2	1.4	.2	.0			11.6	9.9	17.2	14.5	8.9	6.8
W	5.2	9.7	2.1	.3	.0			17.3	10.3	14.2	19.7	15.1	19.7
NW	1.3	1.5	.3	.0	.0			3.0	8.6	1.3	4.4	2.9	3.1
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALM	9.0							9.0	.0	11.9	3.4	11.5	7.5
TOT OBS	208	290	76	23	0	597		10.1		134	147	157	159
TOT PCT	34.8	48.6	12.7	3.9	.0			100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1962-1976  
(COVER-ALL) 1942-1976

JUNE

VALDEZ MARINE AREA  
59.8N 146.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				40+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000Z	11.9	8.2	41.8	30.6	7.3	.0	.0	.0	10.0	100.0	134
0600Z	5.4	7.5	49.7	32.0	4.1	1.4	.0	.0	10.4	100.0	147
1201Z	11.3	8.3	44.6	30.6	3.8	1.3	.0	.0	9.4	100.0	157
1802Z	7.3	8.2	46.5	28.9	6.9	1.9	.0	.0	10.6	100.0	159
TOT	94	48	273	102	33	7	0	0	10.1		597
PCT	9.0	8.0	45.7	30.5	5.5	1.2	.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	1.6	1.7		7.1
NE	.6	.6	2.0	4.7		6.6
E	.5	.6	4.3	15.8		7.4
SE	.2	.0	1.8	12.6		7.7
S	.4	1.2	2.1	6.2		6.7
SW	1.8	.8	3.0	6.4		6.2
W	2.5	2.5	3.6	9.3		5.9
NW	.9	.3	.8	.8		5.0
VAR	.0	.0	.0	.0		.0
CALM	1.1	1.1	3.4	4.2	524	6.2
TOT OBS	42	37	122	323		6.7
TOT PCT	8.0	7.1	23.3	61.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)  
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	.0	.2	.6	.5	.4	.5	.2	.0	.0	.0	.9	
NE	.2	.2	.4	1.8	1.6	1.9	.0	.0	.0	.0	2.3	
E	1.0	.4	.8	4.0	5.3	5.7	.6	.3	.0	.0	3.1	
SE	.8	.6	.2	2.9	4.5	3.5	.7	.5	.0	.0	.9	
S	.2	.2	.1	1.3	3.1	.9	1.0	.6	.1	.0	2.4	
SW	.6	.2	.6	1.2	2.9	1.7	1.0	.1	.1	.0	3.7	
W	.2	.2	.2	2.2	3.2	3.6	1.0	.2	.3	.5	6.3	
NW	.0	.0	.0	.2	.4	.1	.0	.2	.2	.0	1.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.2	.2	1.7	1.3	1.3	.8	.4	.0	.0	3.6	
TOT OBS	17	11	16	83	119	102	27	12	4	3	180	524
TOT PCT	3.2	2.1	3.1	15.8	22.7	19.3	5.2	2.3	.8	.6	24.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	< OR >10	< OR >5	< OR >2	< OR >1	< OR >1/2	< OR >1/4	< OR >50YD	< OR >0
< OR >6500	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
< OR >5000	3.4	3.6	3.6	3.6	3.6	3.6	3.6	3.6
< OR >4500	8.0	8.7	8.7	8.7	8.7	8.7	8.7	8.7
< OR >4000	21.6	27.1	27.8	28.0	28.0	28.0	28.0	28.0
< OR >3500	37.9	48.3	50.2	50.4	50.6	50.6	50.6	50.6
< OR >3000	46.2	61.2	65.3	66.1	66.3	66.3	66.7	66.7
< OR >2500	47.5	64.0	68.4	69.1	69.3	69.3	69.7	69.7
< OR >2000	48.1	65.9	70.6	71.4	71.6	71.6	72.0	72.0
< OR >1500	48.3	67.0	72.3	73.7	74.4	74.8	75.4	75.4
TOTAL	255	354	382	389	393	395	398	398

TOTAL NUMBER OF OBS: 528

PCT FREQ NM <5/8: 24.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	4.3	3.1	5.8	5.8	6.0	5.4	8.2	10.9	49.3	1.3
										552

PERIOD: (PRIMARY) 1962-1976  
(OVER-ALL) 1942-1976

JUNE

VALDEZ MARINE AREA  
59.8N 146.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.2	.3	.0	.0	.3	.8	
	TOT %	.0	.0	.0	.0	.0	.2	.3	.0	.0	.3	.8	
1/2<1	PCP	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.2	.1	.4	.0	.0	.0	.0	.0	.0	.7	
1<2	PCP	.0	.2	.1	.2	.1	.0	.0	.0	.0	.0	.7	
	NO PCP	.0	.0	.0	.3	.0	.3	.0	.0	.0	.2	.8	
	TOT %	.0	.2	.1	.5	.1	.3	.0	.0	.0	.2	1.5	
2<5	PCP	.2	.5	2.0	.4	.3	.0	.0	.0	.0	.0	3.3	
	NO PCP	.2	.2	.8	.9	.1	.1	.3	.0	.0	.3	2.9	
	TOT %	.3	.7	2.7	1.5	.4	.1	.3	.0	.0	.3	6.4	
5<10	PCP	.3	.5	2.1	.5	.5	.5	.0	.0	.0	.3	4.7	
	NO PCP	.2	2.4	6.2	2.8	1.3	1.0	1.4	.0	.0	.8	16.2	
	TOT %	.3	2.9	8.3	3.3	1.8	1.5	1.4	.0	.0	1.2	20.9	
10+	PCP	.2	.2	.6	.7	.5	.7	.3	.0	.0	.3	3.3	
	NO PCP	2.2	4.8	10.2	9.0	6.7	8.8	14.8	2.9	.0	6.7	66.1	
	TOT %	2.4	5.0	10.8	9.7	7.3	9.5	15.1	3.0	.0	7.1	69.6	
TOT OBS													593
TOT PCT		3.2	8.9	22.1	15.4	9.6	11.6	17.1	3.0	.0	9.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.2	.0	.2	.0	.0	.3	.7	
	4-10	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.2	.2	.3	.0	.0	.3	1.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.3	
	11-21	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.2	.1	.4	.0	.0	.0	.0	.0	.0	.7	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.0	.0	.1	.2	.1	.2	.0	.0	.0	.0	.7	
	11-21	.0	.0	.0	.3	.0	.2	.0	.0	.0	.0	.3	
	22+	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.2	.1	.5	.1	.3	.0	.0	.0	.2	1.5	
2<5	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.3	.5	
	4-10	.3	.2	.4	.5	.1	.0	.0	.0	.0	.0	1.7	
	11-21	.0	.4	1.5	.8	.1	.0	.3	.0	.0	.0	3.2	
	22+	.0	.0	.7	.2	.2	.0	.0	.0	.0	.0	1.0	
	TOT %	.3	.7	2.7	1.5	.4	.1	.3	.0	.0	.3	6.4	
5<10	0-3	.0	.2	.2	.0	.2	.0	.1	.0	.0	1.2	1.9	
	4-10	.5	1.3	1.8	1.3	1.0	1.0	.8	.0	.0	.0	7.4	
	11-21	.0	.5	4.0	1.9	.7	.5	.7	.0	.0	.0	8.2	
	22+	.0	.8	2.5	.0	.0	.0	.0	.0	.0	.0	3.4	
	TOT %	.5	2.9	8.3	3.3	1.8	1.5	1.4	.0	.0	1.2	20.9	
10+	0-3	.7	.3	1.4	.3	1.3	.7	1.6	.3	.0	7.1	14.0	
	4-10	1.4	2.9	4.3	6.0	4.9	5.6	7.9	1.7	.0	.0	33.0	
	11-21	.3	1.4	3.7	3.2	1.0	2.9	3.1	.7	.0	.0	18.4	
	22+	.0	.3	1.2	.1	.0	.2	.3	.0	.0	.0	2.2	
	TOT %	2.4	5.0	10.8	9.7	7.2	9.5	13.0	2.9	.0	7.1	69.3	
TOT OBS													594
TOT PCT		3.2	8.9	22.1	15.4	9.8	11.6	17.0	3.0	.0	9.1	100.0	

JUNE

PERIOD: (PRIMARY) 1962-1976  
(OVER-ALL) 1942-1976VALDEZ MARINE AREA  
59.8N 146.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND  
OCCURRENCE OF NM <3/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <3/8 ANY HGT	TOTAL OBS
00603	2.4	.8	3.3	10.6	29.3	14.6	5.7	3.3	.8	.0	70.7	29.3	123
06609	3.0	1.5	2.2	13.4	20.1	18.7	4.5	1.3	.7	.7	66.4	33.6	134
12615	2.1	3.6	4.3	20.7	23.6	17.9	5.0	2.9	.7	1.4	82.1	17.9	140
18621	5.8	2.9	2.2	18.0	16.5	24.5	5.0	1.4	.7	.0	77.0	23.0	139
TOT PCT	18 3.4	12 2.2	16 3.0	83 15.9	119 22.2	102 19.0	27 5.0	12 2.2	4 .7	3 .6	398 74.3	138 25.7	536 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	.0	1.5	3.7	3.0	15.6	76.3	133
06609	.7	.7	.7	4.8	17.9	73.2	145
12615	1.9	.0	1.3	6.4	28.0	62.4	157
18621	1.8	.6	.6	10.4	20.9	65.6	163
TOT PCT	7 1.2	4 .7	9 1.5	38 6.3	125 20.8	417 69.5	600 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NM >4/8), BY HOUR

HOUR (GMT)	<150 <500D	<600 <1	<1000 <5	1000+ AND 5+	NM <3/8 AND 5+	TOTAL OBS
00603	2.5	7.4	19.7	51.6	28.7	122
06609	3.0	6.8	22.0	45.5	32.6	132
12615	2.1	10.7	33.6	49.3	17.1	140
18621	6.0	11.9	33.6	47.0	19.4	134
TOT PCT	18 3.4	49 9.3	145 27.3	255 48.3	128 24.2	528 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.5	.0	.0	.0	.0	2	.5
63/69	.0	.0	.0	.0	.0	.2	.0	.0	1	.2
60/64	.0	.0	.0	.0	.5	.7	.2	.0	6	1.4
53/59	.0	.0	.0	.0	2.2	2.4	6.3	1.4	51	12.3
50/54	.0	.0	.0	.0	1.0	6.7	18.6	12.5	161	38.8
43/49	.0	.0	.0	.2	.2	3.1	14.2	20.2	158	38.1
40/44	.0	.0	.0	.0	.0	.7	1.2	6.3	34	8.2
33/39	.0	.0	.0	.0	.0	.0	.0	.5	2	.5
TOTAL	0	0	0	3	16	58	168	170	415	100.0
PCT	.0	.0	.0	.7	3.9	14.0	40.3	41.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0
63/69	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0
60/64	.0	.0	.0	.0	.0	.5	.0	.7	.0	.2
53/59	.5	1.2	1.4	1.1	1.6	1.6	2.7	.6	.0	1.7
50/54	1.0	2.3	8.2	6.5	3.6	4.0	7.7	1.3	.0	4.3
43/49	2.0	4.0	9.0	5.8	4.3	4.1	5.5	.5	.0	2.7
40/44	.2	.4	2.1	1.9	1.0	.7	1.1	.0	.0	.7
33/39	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0
TOTAL	3.7	8.2	20.7	15.8	10.5	11.0	17.0	3.4	.0	9.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	70	61	60	50	45	42	41	51.3	134
06609	70	65	56	50	44	42	39	49.9	141
12615	59	58	55	48	43	41	39	48.3	153
18621	62	61	56	50	45	41	40	50.0	164
TOT	70	61	57	50	44	41	39	49.8	592

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	2.2	9.9	22.0	33.0	33.0	83	91
06609	.0	.9	2.7	11.8	45.5	39.1	87	110
12615	.0	.9	.0	9.3	36.4	53.3	90	107
18621	.0	.0	4.5	13.4	45.5	36.6	87	112
TOT	0	4	17	58	170	171	87	420

JUNE

PERIOD: (PRIMARY) 1962-1976  
(OVER-ALL) 1942-1976

TABLE 17

VALDEZ MARINE AREA  
59.8N 146.3WPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	W FOG	NO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.5	2	.0	.5
14/16	.0	.0	.0	.0	.0	.2	.0	.0	.0	1	.0	.2
11/13	.0	.0	.0	.0	.0	1.0	.2	.0	.0	5	.0	1.2
9/10	.0	.0	.0	1.9	.2	.2	.2	.0	.0	11	.0	2.6
7/8	.0	.0	1.0	1.7	1.2	.2	.0	.0	.0	17	.0	4.0
6	.0	.0	.2	.7	1.9	.2	.0	.0	.0	18	.5	2.6
5	.0	.0	2.6	2.1	2.1	1.0	.0	.0	.0	33	1.0	6.9
4	.0	.0	.7	2.9	.7	.0	.0	.0	.0	18	.7	3.6
3	.0	.0	1.0	1.9	2.9	.0	.0	.0	.0	24	.2	5.3
2	.0	.7	3.3	3.6	1.9	.2	.0	.0	.0	41	.7	9.0
1	.0	.7	3.1	3.6	1.4	.0	.0	.0	.0	37	1.0	7.9
0	.0	.0	3.3	3.3	.5	.5	.0	.0	.0	32	.5	7.1
-1	.0	1.7	5.2	3.1	.2	.5	.0	.0	.0	45	.5	10.2
-2	.0	1.4	3.8	4.0	1.4	.2	.0	.0	.0	46	.2	10.7
-3	.0	1.7	1.9	3.1	.5	.2	.0	.0	.0	31	.2	7.1
-4	.2	.2	2.1	1.7	1.4	.0	.0	.0	.0	24	.0	5.7
-5	.0	.5	1.2	.2	1.4	.0	.0	.0	.0	14	.2	3.1
-6	.0	.0	1.4	1.0	.2	.0	.0	.0	.0	11	.0	2.6
-7/-8	.0	.2	.7	1.0	.2	.0	.0	.0	.0	9	.0	2.1
-9/-10	.0	.3	.2	.3	.0	.0	.0	.0	.0	5	.0	1.2
-11/-13	.0	.0	.2	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	1	32	133	152	77	19	2	0	2	420	24	396
PCT	.2	7.6	32.1	36.2	18.3	4.5	.5	.0	.5	100.0	5.7	94.3

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.4	.0	.0	.0	.0	.8	.4	.4	.0	.0	.0	.0	.8
1-2	.8	1.9	.0	.0	.0	.0	2.7	.0	2.1	1.1	.0	.0	.0	3.2
3-4	.0	.0	.0	.0	.0	.0	.0	.1	1.9	2.0	.6	.0	.0	4.5
5-6	.0	.0	.3	.0	.0	.0	.3	.0	.4	.4	.1	.0	.0	.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	2.3	.3	.0	.0	.0	3.8	.5	4.7	3.6	1.8	.1	.0	10.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.0	.0	.0	.0	.0	.7	.1	1.6	.4	.0	.0	.0	2.1
1-2	.6	3.5	2.9	.0	.0	.0	6.9	.2	3.4	1.2	.0	.0	.0	4.7
3-4	.7	2.0	4.5	1.4	.0	.0	8.6	.0	1.4	1.0	.0	.0	.0	2.4
5-6	.0	.3	3.1	1.8	.0	.0	5.1	.1	1.0	2.6	.1	.0	.0	3.8
7	.0	.4	1.1	.3	.4	.0	2.2	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.8	.7	.0	.0	1.5	.0	.0	.8	.0	.0	.0	.8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.3	.4	.0	.7	.0	.0	.4	.0	.0	.0	.4
13-16	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	6.1	12.4	5.2	1.1	.0	20.8	.4	7.3	6.7	.1	.0	.0	14.3

PERIOD: (OVER-ALL) 1963-1976

JUNE

TABLE 18 (CONT)

VALDEZ MARINE AREA  
99.8M 146.3M

PCT FREQ OF WIND Speed (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.1	.4	.0	.0	.0	.0	.5
1-2	.4	4.3	.4	.0	.0	.0	9.1	.4	2.8	.2	.0	.0	.0	3.4
3-4	1.1	.9	.8	.0	.0	.0	2.8	.1	1.3	2.0	.0	.0	.0	3.6
5-6	.3	.3	.7	.0	.0	.0	1.3	.0	.4	.0	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	5.3	2.3	.0	.0	.0	9.6	.6	9.0	2.2	.0	.0	.0	7.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	1.2	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.7	1.6	.0	.0	.0	6.3	.0	.3	.2	.0	.0	.0	.5	.9
3-4	.8	2.3	2.3	.0	.0	.0	5.3	.0	.8	1.1	.0	.0	.0	.9	.2
5-6	.0	.7	.4	.0	.0	.0	1.1	.0	.1	.0	.0	.0	.0	.0	.0
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	8.9	4.6	.0	.0	.0	14.6	.0	1.2	.4	.0	.0	.0	1.6	89.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	12.6	4.0	.4	.0	.0	.0	17.0	
1-2	2.4	22.9	7.5	.0	.0	.0	32.8	
3-4	2.8	10.7	12.6	2.0	.0	.0	28.1	
5-6	.4	3.2	7.5	2.0	.0	.0	13.0	
7	.0	.4	2.0	.8	.4	.0	3.6	
8-9	.0	.0	1.6	1.2	.0	.0	2.8	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.8	.4	.4	.0	1.6	
13-16	.0	.0	.0	.4	.0	.0	.4	
17-19	.0	.0	.0	.4	.0	.0	.4	
20-22	.0	.0	.0	.4	.0	.0	.4	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-80	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	18.2	41.1	32.4	7.1	1.2	.0	100.0	293

PERIOD: (OVER-ALL) 1952-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.0	16.0	18.5	7.8	2.5	1.4	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	218
6-7	.0	1.6	5.0	5.5	2.1	2.5	.2	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	76
8-9	.0	1.4	5.5	1.4	.2	1.4	.7	.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	49
10-11	.0	1.4	.2	1.1	.5	.5	.0	.9	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21
12-13	.0	.0	2.3	1.6	.9	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23
>13	.0	.0	.0	.0	.7	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8
INDET	10.0	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	47
TOTAL	37	91	139	76	30	26	5	9	1	3	1	0	0	0	0	0	0	0	0	0	438
PCT	13.0	20.8	31.7	17.4	6.8	5.9	1.1	2.1	.2	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1963-1976  
(OVER-ALL) 1933-1976

JULY

VALDEZ MARINE AREA  
59.6N 146.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	11.7	2.3	6.3	.0	.0	.0	.0	20.3	.0	.0	7.0	.0	.0	.0	72.7
NE	10.6	.3	7.7	.0	.0	.0	.0	17.5	6.2	.0	9.3	.0	.0	.0	67.0
E	14.2	.5	10.8	.0	.0	.0	.0	25.0	5.2	.0	7.3	.0	.5	.0	61.8
SE	6.3	1.1	8.6	.0	.0	.0	.0	16.0	6.0	.0	7.7	.0	1.1	.0	69.1
S	3.6	2.8	1.8	.0	.0	.0	.0	8.2	6.8	.0	7.1	.0	.0	.0	77.9
SW	2.0	.0	2.3	.0	.0	.0	.0	4.1	1.7	.0	6.1	.0	3.5	.0	84.6
W	1.5	.0	3.4	.0	.0	.0	.0	6.2	1.7	.0	11.6	.0	.0	.0	80.4
NW	.0	.0	2.4	.0	.0	.0	.0	2.4	.0	2.4	4.8	.0	2.4	.0	87.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.1	.7	7.5	.0	.0	.0	.0	12.2	.0	.7	10.2	.7	.7	.0	75.5
TOT PCT	6.8	.7	6.8	.0	.0	.0	.0	14.0	3.4	.2	8.4	.1	.8	.0	73.1
TOT OBS:	890														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	7.3	.9	5.0	.0	.0	.0	.0	12.8	3.2	.5	8.3	.0	.9	.0	74.3
0600	4.9	.0	6.4	.0	.0	.0	.0	10.8	4.9	.5	7.8	.5	2.0	.0	73.5
1200	8.5	.4	8.9	.0	.0	.0	.0	17.9	4.9	.0	8.0	.0	.4	.0	68.8
1800	6.5	1.4	6.5	.0	.0	.0	.0	14.0	.9	.0	8.9	.0	.0	.0	76.6
TOT PCT	6.9	.7	6.7	.0	.0	.0	.0	14.0	3.4	.2	8.3	.1	.8	.0	73.3
TOT OBS:	860														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.2	1.4	.7	.1	.0	.0		3.7	7.6	1.8	.0	6.7	.0	4.5	.0	4.2	.0	
NE	1.4	6.1	3.5	.4	.0	.0		11.5	9.6	8.9	25.0	9.9	.0	13.2	.0	14.1	.0	
E	1.2	9.7	8.6	2.6	.0	.0		22.1	12.6	20.8	30.0	28.5	.0	22.7	.0	21.5	34.4	
SE	1.0	6.2	2.7	.4	.1	.0		10.4	9.4	11.2	25.0	10.6	.0	8.6	.0	10.9	15.6	
S	1.4	5.3	1.3	.1	.0	.0		8.3	7.3	9.2	.0	9.0	.0	7.3	.0	8.3	.0	
SW	1.4	6.6	1.9	.1	.0	.0		10.1	8.1	14.6	.0	11.0	.0	6.3	.0	8.3	25.0	
W	1.5	6.7	3.6	.0	.0	.0		11.8	8.8	11.6	.0	12.5	100.0	12.3	.0	10.0	12.5	
NW	.6	3.2	1.0	.0	.0	.0		4.8	7.6	6.1	.0	3.8	.0	3.9	.0	5.3	12.5	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	17.4							17.4	.0	16.0	.0	15.8	.0	21.2	.0	17.3	.0	
TOT OBS	232	391	200	32	2	0	857		8.0	213	4	202	2	226	0	202	8	
TOT PCT	27.1	45.6	23.3	3.7	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	2.4	1.1	.1	.2	.0		3.7	7.6	1.7	4.7	4.5	4.0	
NE	4.1	6.4	.9	.1	.0		11.5	9.6	9.2	9.8	13.2	13.6	
E	4.0	12.3	5.0	.7	.0		22.1	12.6	21.5	22.3	22.7	22.0	
SE	4.0	5.3	1.0	.1	.0		10.4	9.4	11.4	10.5	8.6	11.1	
S	4.3	3.6	.4	.0	.0		8.3	7.3	9.0	8.9	7.3	8.0	
SW	4.2	5.5	.4	.0	.0		10.1	8.1	14.3	10.9	6.3	8.9	
W	4.9	5.9	1.0	.0	.0		11.8	8.8	11.4	13.4	12.3	10.1	
NW	2.6	2.0	.3	.0	.0		4.8	7.6	6.0	3.8	3.9	5.6	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	17.4						17.4	.0	15.7	15.7	21.2	16.7	
TOT OBS	409	300	78	10	0	897		8.0	217	204	226	210	
TOT PCT	47.7	42.0	9.1	1.2	.0		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1963-1976  
(COVER-ALL) 1939-1976

JULY

VALDEZ MARINE AREA  
59.8N 146.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000	15.7	6.0	44.7	30.0	3.7	.0	.0	8.6	100.0	217
0600	15.7	12.3	46.4	23.5	2.0	.0	.0	7.3	100.0	204
1200	21.2	9.7	45.6	19.9	3.5	.0	.0	7.9	100.0	226
1800	16.7	11.0	45.7	20.0	5.7	1.0	.0	8.8	100.0	210
TOT	149	89	391	200	32	2	0	8.0		857
PCT	17.4	9.7	45.6	23.3	3.7	.2	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	.5	.0	.8	2.1		6.7
NE	1.0	.8	3.1	6.9		6.6
E	.3	.6	5.8	15.6		7.3
SE	.4	.4	2.2	7.0		7.1
S	.6	.6	1.7	4.8		6.6
SW	2.1	1.0	2.9	4.2		5.6
W	1.2	2.3	2.9	4.6		5.7
NW	1.4	.4	1.9	1.4		4.9
VAR	.0	.0	.0	.0		.0
CALM	2.8	1.1	3.9	10.5		6.3
TOT OBS	77	55	188	424	744	6.5
TOT PCT	10.3	7.4	25.3	57.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)  
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3999	4999	6499	7999			
N	.3	.0	.6	.7	.8	.0	.0	.0	.2	.0	.7	
NE	.8	.9	1.6	2.1	2.1	.4	.5	.0	.0	.1	3.6	
E	2.2	.9	2.8	4.7	4.6	2.2	1.2	.0	.3	.0	3.5	
SE	.3	.1	1.0	2.7	2.3	.8	.5	.0	.8	.1	2.0	
S	.5	.1	.4	1.7	1.8	1.1	.1	.0	.1	.0	1.8	
SW	.4	.0	.8	1.2	2.1	.9	.1	.1	.0	.1	4.5	
W	.8	.2	1.1	1.0	1.2	1.3	.3	.1	.0	.0	5.1	
NW	.0	.0	.7	.4	.4	.5	.3	.0	.0	.0	2.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.7	.4	1.3	2.7	2.3	2.8	1.7	.0	.1	.0	5.1	
TOT OBS	53	17	77	128	131	73	36	2	6	3	216	744
TOT PCT	7.1	2.3	10.3	17.2	17.6	10.1	4.8	.9	.8	.4	29.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2
= OR >5000	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5
= OR >3500	5.5	6.3	6.3	6.3	6.3	6.3	6.3	6.3
= OR >2000	14.6	16.2	16.6	16.7	16.7	16.7	16.7	16.7
= OR >1000	27.4	32.2	34.2	34.3	34.3	34.3	34.3	34.3
= OR >600	35.9	47.7	51.0	51.3	51.3	51.3	51.3	51.3
= OR >300	39.1	55.3	61.0	61.4	61.4	61.4	61.4	61.4
= OR >150	39.4	56.3	62.9	63.7	63.7	63.7	63.7	63.7
= OR >0	39.5	56.6	64.8	66.5	67.8	68.5	70.0	70.6
TOTAL	296	424	485	498	508	513	524	530

TOTAL NUMBER OF OBS: 749

PCT FREQ NM <5/8: 29.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	9	TOTAL OBS
	6.0	6.0	6.1	5.2	6.0	4.2	9.6	8.8	42.1	9.9	783

JULY

PERIOD: (PRIMARY) 1963-1976  
(OVER-ALL) 1933-1976VALDEZ MARINE AREA  
59.0N 146.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.3	.1	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	.0	.1	.3	.0	.0	.4	.5	.0	.0	1.2	2.3	
	TOT %	.0	.1	.6	.1	.0	.4	.5	.0	.0	1.2	2.8	
1/2<1	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.3	.1	.3	.1	.4	.0	.2	.0	.0	.1	1.4	
	TOT %	.3	.1	.3	.2	.4	.0	.2	.0	.0	.1	1.5	
1<2	PCP	.0	.0	.6	.1	.0	.0	.1	.0	.0	.1	.9	
	NO PCP	.0	.1	.2	.1	.0	.0	.1	.0	.0	.1	.7	
	TOT %	.0	.1	.8	.2	.0	.0	.2	.0	.0	.2	1.6	
2<5	PCP	.3	1.1	2.1	.5	.0	.1	.1	.0	.0	.9	5.2	
	NO PCP	.1	.5	1.4	.7	.8	.1	.6	.0	.0	.1	4.2	
	TOT %	.4	1.6	3.5	1.2	.8	.2	.7	.0	.0	1.1	9.4	
5<10	PCP	.4	.8	2.1	.7	.1	.2	.3	.1	.0	.8	5.6	
	NO PCP	.0	2.5	3.8	1.3	1.1	1.1	1.2	.9	.0	1.8	14.2	
	TOT %	1.0	3.3	5.9	2.0	1.2	1.3	1.6	1.0	.0	2.6	19.9	
10+	PCP	.1	.0	.5	.2	.5	.1	.2	.1	.0	.4	2.0	
	NO PCP	2.0	6.1	10.5	6.4	5.4	8.3	8.5	3.7	.0	11.8	62.7	
	TOT %	2.1	6.1	11.0	6.6	5.9	8.3	8.7	3.9	.0	12.1	64.7	
TOT OBS													850
TOT PCT		3.8	11.4	22.1	10.3	8.3	10.1	11.9	4.9	.0	17.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	1.2	1.3
	4-10	.0	.0	.4	.0	.0	.4	.4	.0	.0	.0	.1	1.1
	11-21	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.2	.2
	22+	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.2	.2
	TOT %	.0	.1	.6	.1	.0	.4	.5	.0	.0	1.2	2.8	
1/2<1	0-3	.3	.1	.0	.0	.1	.0	.0	.0	.0	.1	.6	
	4-10	.0	.0	.1	.0	.2	.0	.0	.0	.0	.0	.4	
	11-21	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0	.5	
	22+	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.3	.1	.3	.2	.4	.0	.2	.0	.0	.1	1.5	
1<2	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	.4	
	4-10	.0	.0	.3	.1	.0	.0	.1	.0	.0	.0	.6	
	11-21	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.2	
	22+	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.0	.1	.8	.2	.0	.0	.2	.0	.0	.2	1.6	
2<5	0-3	.1	.1	.1	.1	.1	.0	.0	.0	.0	1.1	1.6	
	4-10	.1	.9	.9	.6	.4	.1	.6	.0	.0	.3	3.8	
	11-21	.2	.5	1.9	.3	.2	.0	.1	.0	.0	.0	3.3	
	22+	.0	.0	.6	.3	.0	.0	.0	.0	.0	.0	.9	
	TOT %	.4	1.6	3.5	1.3	.8	.2	.7	.0	.0	1.1	9.6	
5<10	0-3	.2	.2	.2	.0	.2	.1	.1	.1	.0	2.6	3.9	
	4-10	.4	1.7	2.1	1.1	.8	1.1	.6	.6	.0	.0	8.4	
	11-21	.2	1.0	2.5	.9	.2	.1	.8	.2	.0	.0	6.0	
	22+	.1	.4	1.0	.0	.0	.0	.0	.0	.0	.0	1.5	
	TOT %	1.0	3.3	5.9	2.0	1.2	1.3	1.6	1.0	.0	2.6	19.8	
10+	0-3	.6	.9	.8	.8	.9	1.3	1.3	.5	.0	12.2	19.3	
	4-10	1.1	3.4	3.9	4.4	4.0	5.0	3.1	2.6	.0	.0	31.4	
	11-21	.3	1.8	4.1	1.3	.8	1.8	2.2	.8	.0	.0	13.1	
	22+	.1	.0	.2	.1	.1	.1	.0	.0	.0	.0	.7	
	TOT %	2.1	6.1	11.0	6.6	5.9	8.3	8.7	3.8	.0	12.2	64.6	
TOT OBS													853
TOT PCT		3.8	11.4	22.1	10.4	8.2	10.1	11.8	4.8	.0	17.4	100.0	

JULY

PERIOD: (PRIMARY) 1963-1976  
(OVER-ALL) 1933-1976VALDEZ MARINE AREA  
59.8N 146.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND  
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	400 499	1000 1999	2000 2499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	5.6	1.5	10.3	17.4	19.5	8.2	5.1	.0	.0	.5	68.2	31.8	195
06009	6.1	3.4	8.4	16.8	14.3	10.1	4.5	1.1	1.1	.0	69.9	34.1	179
12015	9.3	2.4	9.8	17.6	17.6	9.8	5.4	.0	1.0	.5	79.2	26.8	205
18021	6.6	1.6	12.0	15.3	17.5	13.1	3.8	.0	1.1	.5	71.6	28.4	183
TOT	53	17	77	128	132	78	36	2	6	3	532	230	762
PCT	7.0	2.2	10.1	16.8	17.3	10.2	4.7	.3	.8	.4	69.8	30.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	2.3	2.3	1.4	8.3	15.6	70.2	218
06009	2.5	1.5	2.0	7.8	22.1	64.2	204
12015	3.6	1.3	1.8	13.3	22.7	57.3	225
18021	2.8	.9	1.4	8.3	19.0	67.6	216
TOT	24	13	14	82	171	559	863
PCT	2.8	1.5	1.6	9.5	19.8	64.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	3.6	17.4	36.4	32.3	31.3	195
06009	6.3	17.8	36.8	30.3	32.8	174
12015	9.5	21.9	43.3	31.3	25.4	201
18021	6.7	20.7	38.5	34.6	26.8	179
TOT	53	146	291	241	217	749
PCT	7.1	19.5	38.9	32.2	29.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.0	.2	.0	.0	.0	1	.2
65/69	.0	.0	.3	.2	.5	.7	.2	.3	13	2.1
60/64	.0	.0	.0	.2	1.5	5.6	5.3	1.5	85	14.0
55/59	.0	.0	.0	.3	1.6	9.6	24.2	7.7	264	43.5
50/54	.0	.0	.0	.0	.0	2.0	12.4	21.7	219	36.1
45/49	.0	.0	.0	.0	.0	.2	.5	3.3	24	4.0
40/44	.0	.0	.0	.0	.0	.0	.0	.2	1	.2
TOTAL	0	0	2	4	23	109	258	211	607	100.0
PCT	.0	.0	.3	.7	3.8	18.0	42.5	34.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
65/69	.0	.2	.0	.2	.3	.9	.3	.3	.0	.0
60/64	.3	1.1	1.5	.9	1.2	1.8	1.9	1.2	.0	4.1
55/59	2.3	3.9	8.9	4.9	4.3	5.1	4.0	2.5	.0	7.4
50/54	2.0	5.8	9.2	4.8	3.1	2.0	3.6	1.2	.0	4.4
45/49	.0	.9	1.5	.4	.4	.2	.3	.0	.0	.2
40/44	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0
TOTAL	4.6	11.9	21.1	11.4	9.3	10.1	10.3	5.1	.0	16.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	73	68	64	56	50	48	46	56.8	214
06009	72	69	62	53	50	47	46	55.4	201
12015	74	62	59	54	49	45	45	53.7	226
18021	67	63	62	53	49	46	43	55.6	215
TOT	74	67	62	55	49	46	43	55.4	856

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.3	4.4	27.7	42.1	24.5	84	159		
06009	.0	.0	6.6	13.2	45.7	34.4	86	151		
12015	.0	1.3	.7	9.2	41.2	47.7	89	153		
18021	.0	1.3	3.3	20.9	42.5	32.0	85	153		
TOT	0	6	23	110	264	213	86	616		

PERIOD: (PRIMARY) 1963-1976  
(OVER-ALL) 1939-1976

JULY

TABLE 17

VALDEZ MARINE AREA  
59.8N 146.5W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	N FOG	NO FOG
20/22	.0	.0	.0	.0	.2	.2	.0	.0	2	.0	.3
17/19	.0	.0	.0	.0	.0	.0	.3	.2	7	.0	1.1
14/16	.0	.0	.0	.0	.3	.2	.0	.0	3	.0	.5
11/13	.0	.0	.0	.2	.4	.2	.0	.0	6	.0	.9
9/10	.0	.0	.0	.8	.9	.5	.2	.0	15	.0	2.4
7/8	.2	.0	.3	1.4	.9	.0	.0	.0	19	.3	2.7
6	.0	.0	.5	1.6	.9	.2	.0	.0	20	.2	3.0
5	.0	.0	1.4	1.4	.6	.0	.0	.0	22	.3	3.0
4	.0	.2	1.3	3.0	.3	.0	.0	.0	30	.6	4.1
3	.0	.3	3.3	2.2	.9	.0	.0	.0	43	.3	6.5
2	.0	2.2	5.7	2.5	.9	.0	.0	.0	72	1.9	9.4
1	.0	2.2	5.0	2.7	.2	.0	.0	.0	84	1.1	9.0
0	.6	3.8	6.3	1.9	.3	.0	.0	.0	83	.9	12.1
-1	.3	3.6	5.8	2.0	.0	.0	.0	.0	76	.5	11.5
-2	.3	2.2	3.5	1.4	.0	.0	.0	.0	47	.5	6.9
-3	.6	2.8	1.9	1.4	.0	.0	.0	.0	43	.9	5.8
-4	.3	2.4	2.8	.0	.0	.0	.0	.0	35	.6	4.9
-5	.2	1.9	1.7	.0	.0	.0	.0	.0	24	.2	3.6
-6	.0	.8	.8	.2	.0	.0	.0	.0	11	.0	1.7
-7/-8	.0	1.1	.3	.0	.0	.0	.0	.0	9	.2	1.3
-9/-10	.3	.2	.0	.0	.0	.0	.0	.0	3	.2	.3
-11/-13	.0	.0	.0	.2	.0	.0	.0	.0	1	.0	.2
TOTAL	19	150	260	145	46	11	3	1	635	56	379
PCT	3.0	23.6	40.9	22.8	7.2	1.7	.5	.2	100.0	8.8	91.2

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	1.2	.6	.0	.0	.0	.0	1.7		1.5	2.5	.0	.0	.0	.0	.0	3.9
1-2	.0	.6	.0	.0	.0	.0	.6		.3	2.6	.8	.0	.0	.0	.0	4.9
3-4	.2	.2	.2	.0	.0	.0	.5		.1	1.3	2.2	.0	.0	.0	.0	3.3
5-6	.0	.0	.0	.2	.0	.0	.2		.0	.0	1.0	.2	.0	.0	.0	1.1
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.4	.1	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.1	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.4	.0	.0	.0	.4
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	1.3	.2	.2	.0	.0	2.9		2.0	7.4	4.4	.7	.0	.0	.0	14.4

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	2.7	.4	.0	.0	.0	3.9		.3	1.4	.0	.0	.0	.0	.0	1.7
1-2	.2	4.9	3.2	.0	.0	.0	8.2		.3	2.4	1.1	.0	.0	.0	.0	3.7
3-4	.0	.8	3.6	1.0	.0	.0	4.4		.0	1.7	1.8	.3	.0	.0	.0	3.7
5-6	.0	.2	2.0	1.1	.0	.0	3.2		.0	.3	.3	.0	.0	.0	.0	.6
7	.0	.2	.5	1.0	.0	.0	1.7		.0	.0	.1	.0	.2	.0	.0	.3
8-9	.0	.0	.6	.0	.0	.0	.8		.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.2	.0	.0	.2		.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.2	.2	.0	.0	.3		.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.4	.0	.0	.0	.0	.4		.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	9.1	9.7	3.3	.0	.0	22.8		.6	3.7	3.3	.3	.2	.0	.0	10.0

PERIOD: (OVER-ALL) 1963-1976

JULY

TABLE 18 (CONT)

VALDEZ MARINE AREA  
59.0N 146.5W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	2.2	.0	.0	.0	.0	2.1	.3	1.8	.0	.0	.0	.0	2.1
1-2	.2	2.2	.0	.0	.0	.0	2.9	.2	3.0	.5	.0	.0	.0	3.7
3-4	.0	.2	1.1	.0	.0	.0	1.2	.0	.6	.7	.0	.0	.0	1.3
5-6	.0	.2	.2	.0	.0	.0	.4	.0	.0	.3	.2	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	4.8	1.8	.0	.0	.0	7.6	.5	5.4	1.6	.2	.0	.0	7.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.0	1.2	.0	.0	.0	.0	2.2	.3	1.1	.0	.0	.0	.0	1.3	
1-2	.4	2.9	1.2	.0	.0	.0	4.5	.2	1.9	.2	.0	.0	.0	2.3	
3-4	.0	1.2	2.5	.0	.0	.0	3.6	.0	.1	.0	.0	.0	.0	.1	
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.4	5.3	3.8	.0	.0	.0	10.4	.5	3.0	.4	.0	.0	.0	3.8	79.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	25.9	13.4	.4	.0	.0	.0	39.7	
1-2	2.0	21.9	7.3	.0	.0	.0	31.0	
3-4	.2	3.9	10.9	1.2	.0	.0	18.2	
5-6	.0	.6	4.0	1.4	.0	.0	6.3	
7	.0	.2	1.2	1.0	.2	.0	2.6	
8-9	.0	.0	.8	.0	.0	.0	.8	
10-11	.0	.0	.0	.2	.0	.0	.2	
12	.0	.0	.2	.2	.0	.0	.4	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.4	.0	.4	.0	.0	.8	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	28.1	41.9	25.1	4.7	.2	.0	100.0	494

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	7.2	21.0	18.8	8.6	1.4	.8	.0	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	374
6-7	.0	2.5	8.7	5.0	.9	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	113
8-9	.0	1.9	.9	1.1	.3	.5	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34
10-11	.0	1.7	.3	.3	.3	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21
12-13	.0	.0	.8	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9
>13	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
INDEX	12.1	.5	.2	.0	.2	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	85
TOTAL	124	177	192	100	26	10	3	3	2	4	0	0	0	0	0	0	0	0	0	0	643
PCT	19.3	27.5	29.9	15.6	4.0	1.6	.5	.8	.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

## AUGUST

PERIOD: (PRIMARY) 1962-1976  
(OVER-ALL) 1934-1976

VALDEZ MARINE AREA  
59.8N 146.3W

TABLE 1

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA	
N	15.6	2.0	7.5	.0	.0	.0	.0	23.1	2.7	.0	5.4	.0	.0	.0	68.7	
NE	20.4	.0	10.0	.0	.0	.0	.0	30.0	4.2	.0	8.8	.0	1.5	.0	55.4	
E	14.3	2.9	11.5	.0	.0	.0	.0	27.5	6.7	.0	8.2	.0	.8	.0	56.9	
SE	11.2	1.7	10.3	.0	.0	.0	.0	27.2	7.8	.0	5.1	.3	1.4	.0	58.2	
S	6.2	.0	5.2	.0	.0	.0	.0	11.4	9.3	.0	6.6	1.0	1.0	.0	70.6	
SW	1.7	.0	3.1	.0	.0	.0	.0	3.4	2.8	.0	5.5	.0	.7	.3	87.2	
W	4.0	.0	6.5	.0	.0	.0	.0	10.5	.0	1.4	5.4	.0	2.5	1.1	79.0	
NW	12.1	.9	4.3	.0	.0	.0	.0	17.2	6.9	.0	11.2	.0	.0	.0	64.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	10.4	1.5	4.5	.0	.0	.0	.0	13.4	.0	.0	13.4	1.5	.0	.0	71.6	
TOT PCT	10.6	1.1	8.3	.0	.0	.0	.0	18.8	4.7	.2	7.6	.3	1.0	.2	67.2	
TOT OBS:	616															

TABLE 2

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
0000	12.7	.6	6.0	.0	.0	.0	.0	18.1	5.4	.6	6.6	.6	2.4	.0	.0	66.3
0600	5.5	1.6	11.0	.0	.0	.0	.0	18.1	4.7	.0	6.3	.8	.0	.0	.0	70.1
1200	13.6	1.7	7.9	.0	.0	.0	.0	20.9	4.0	.0	7.9	.0	.6	.0	.0	66.7
1800	8.3	1.3	8.3	.0	.0	.0	.0	17.2	4.5	.0	10.2	.0	.6	.6	.6	66.9
TOT TOT OBS:	10.4 627	1.3	8.1	.0	.0	.0	.0	18.7	4.6	.2	7.8	.3	1.0	.2	.0	67.3

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)								TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+						00	03	06	09	12	15	18	21
N	.7	4.8	.5	.0	.0	.0			6.1	6.7	4.9	.0	5.5	.0	5.6	.0	8.8	.0	
NE	1.0	4.8	3.5	1.1	.6	.0			10.5	11.0	8.2	.0	7.6	.0	15.5	.0	8.8	28.6	
E	.4	8.2	8.2	3.8	.6	.0			21.2	14.9	19.1	.0	17.8	.0	21.3	.0	26.9	10.7	
SE	1.2	6.7	3.4	.6	.2	.0			12.2	10.6	15.0	.0	14.1	.0	10.9	.0	8.8	17.9	
S	1.7	6.9	2.8	.2	.0	.0			11.7	8.7	13.7	.0	14.3	.0	10.8	.0	8.8	.0	
SW	1.2	7.2	2.9	.4	.0	.0			11.7	9.2	13.4	.0	15.4	.0	6.0	100.0	12.6	14.3	
W	.9	6.7	3.5	.1	.0	.0			11.1	9.1	11.1	.0	11.5	.0	10.8	.0	11.2	14.3	
NW	1.3	2.3	1.1	.0	.0	.0			4.7	6.9	3.4	.0	1.4	.0	8.2	.0	4.4	14.3	
VAR	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	10.8								10.8	.0	11.1	.0	12.5	.0	10.9	.0	9.5	.0	
TOT OBS	119	296	100	39	5	0	619			9.4		102	0	128	0	174	1	147	7
TOT PCT	19.2	47.8	25.8	6.3	.8	.0			100.0			100.0	.0	100.0	.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)								TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+							00	03	09	18
N	2.5	2.6	.0	.0	.0				6.1	6.7	4.9	5.5	5.6	8.4	
NE	3.0	6.1	1.2	.2	.6				10.5	11.0	8.2	7.6	15.4	9.7	
E	3.8	9.9	3.1	2.1	.2				21.2	14.9	19.1	17.8	21.1	26.1	
SE	2.6	6.7	1.6	.2	.6				12.2	10.6	15.0	14.1	10.9	9.3	
S	4.6	3.9	1.1	.0	.0				11.7	8.7	13.7	14.3	10.7	8.4	
SW	3.8	8.8	1.1	.0	.0				11.7	9.2	13.4	15.4	6.6	12.7	
W	4.5	5.8	.8	.0	.0				11.1	9.1	11.1	11.5	10.7	11.4	
NW	2.5	2.1	.0	.0	.0				4.7	6.9	3.4	1.4	8.1	4.9	
VAR	.0	.0	.0	.0	.0				.0	.0	.0	.0	.0	.0	
CALM	10.8								10.8	.0	11.1	12.5	10.9	9.1	
TOT OBS	249	284	68	16	2	619				9.4		102	128	173	154
TOT PCT	40.2	45.9	11.0	2.6	.3				100.0			100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1962-1976  
(OVER-ALL) 1934-1976VALDEZ MARINE AREA  
59.8N 146.3W

TABLE 4

## PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	11.1	5.6	49.4	26.5	6.8	.6	.0	9.7	100.0	162
0600Z	12.5	7.0	51.6	23.4	5.5	.0	.0	8.9	100.0	128
1200Z	10.9	13.1	45.1	25.7	4.6	.6	.0	8.7	100.0	175
1800Z	9.1	7.1	46.1	27.3	8.4	1.9	.0	10.4	100.0	134
TOT	67	52	296	180	39	5	0	9.4		619
PCT	10.8	8.4	47.8	29.8	6.3	.8	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.5	.6	1.0	4.0		6.7
NE	1.1	.7	2.3	3.7		6.5
E	.9	.7	3.4	15.3		7.2
SE	.4	.8	2.5	9.3		7.1
S	1.2	.5	2.3	7.8		6.7
SW	1.1	1.1	2.9	6.1		6.5
W	2.3	1.7	3.6	3.7		5.3
NW	1.3	.7	.9	2.0		5.2
VAR	.0	.0	.0	.0		.0
CALM	1.9	1.8	2.5	5.8		5.9
TOT OBS	55	43	109	308	515	6.5
TOT PCT	10.7	8.3	21.2	59.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.3	.3	.9	1.4	1.1	.8	.0	.0	.0	.0	1.3	
NE	1.7	.6	.5	1.1	1.6	.9	.0	.2	.2	.0	3.0	
E	2.0	1.3	2.1	5.2	3.9	2.4	.4	.4	.0	.0	2.5	
SE	1.4	.6	1.0	3.3	3.1	1.4	.2	.0	.2	.0	1.8	
S	.5	.5	1.0	2.5	3.1	1.7	.4	.0	.1	.0	2.1	
SW	.8	.0	.4	1.4	1.8	2.0	.6	.2	.3	.0	3.7	
W	.7	.0	1.1	.5	1.4	.8	.2	.2	.3	.0	6.1	
NW	.6	.0	.2	.6	1.1	.0	.0	.0	.0	.0	2.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.4	.2	.6	1.7	2.1	.8	.2	.2	.0	.0	4.5	
TOT OBS	40	19	40	91	99	55	10	6	6	0	140	515
TOT PCT	9.5	3.7	7.8	17.7	19.2	10.7	1.9	1.2	1.2	.0	27.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
>5000	1.9	2.3	2.3	2.3	2.3	2.3	2.3	2.3
>3500	3.9	4.2	4.2	4.2	4.2	4.4	4.4	4.4
>2000	13.9	14.8	14.8	14.8	14.8	15.0	15.0	15.0
>1000	24.9	31.6	32.8	33.7	33.7	33.9	33.9	33.9
>600	38.6	48.0	50.1	51.1	51.1	51.3	51.3	51.3
>300	38.9	53.6	56.8	58.6	58.6	59.0	59.0	59.0
>150	39.7	55.7	59.9	62.2	62.4	62.6	62.6	62.6
>0	40.7	58.2	66.0	67.2	69.6	71.1	72.1	72.3
TOTAL	211	302	332	349	361	369	374	375

TOTAL NUMBER OF OBS: 519

PCT FREQ NH &lt;5/8: 27.7

TABLE 7A

## PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
5.3	6.3	6.4	6.3	3.3	5.0	10.5	7.7	40.8	344

PERIOD: (PRIMARY) 1962-1976  
(OVER-ALL) 1934-1976

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VALDEZ MARINE AREA  
59.8N 146.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.2	.4	.4	.0	.0	.2	.0	.2	.0	.7	2.0	
	TOT %	.2	.4	.4	.2	.0	.2	.0	.2	.0	.7	2.1	
1/2<1	PCP	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	.3	
	NO PCP	.0	.2	.6	.2	.1	.2	.4	.2	.0	.2	2.1	
	TOT %	.0	.2	.7	.2	.1	.2	.4	.2	.0	.3	2.4	
1<2	PCP	.3	.2	1.2	.2	.2	.2	.0	.2	.0	.5	2.8	
	NO PCP	.0	.0	.1	.1	.1	.0	.0	.0	.0	.2	.5	
	TOT %	.3	.2	1.3	.2	.3	.2	.0	.2	.0	.7	3.3	
2<5	PCP	.4	.7	1.4	.7	.4	.0	.3	.0	.0	.3	4.4	
	NO PCP	.0	.2	1.1	.5	.9	.2	.0	.0	.0	.2	2.6	
	TOT %	.4	.9	2.5	1.3	.9	.2	.3	.0	.0	.5	7.0	
5<10	PCP	.7	1.3	2.1	1.2	.3	.1	.9	.6	.0	.2	7.3	
	NO PCP	.7	.9	3.6	2.0	2.6	2.2	.7	.6	.0	1.3	14.3	
	TOT %	1.4	2.2	5.7	3.2	2.9	2.2	1.5	1.2	.0	1.5	21.8	
10+	PCP	.0	1.1	1.0	.8	.4	.2	.0	.0	.0	.3	3.7	
	NO PCP	3.7	9.7	9.6	5.9	7.1	8.7	8.9	3.0	.0	7.0	59.7	
	TOT %	3.7	6.8	10.6	6.7	7.5	8.9	8.9	3.0	.0	7.3	63.4	
TOT OBS													615
TOT PCT		6.0	10.6	21.3	11.8	11.7	11.8	11.2	4.7	.0	10.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.2	.0	.0	.0	.0	.0	.0	.2	.0	.7	1.0	
	4-10	.0	.2	.1	.0	.0	.2	.0	.0	.0	.5		
	11-21	.0	.0	.2	.2	.0	.0	.0	.0	.0	.3		
	22+	.0	.2	.2	.0	.0	.0	.0	.0	.0	.3		
	TOT %	.2	.4	.4	.2	.0	.2	.0	.2	.0	.7	2.1	
1/2<1	0-3	.0	.2	.0	.2	.0	.0	.2	.0	.0	.3	.8	
	4-10	.0	.1	.4	.0	.1	.2	.3	.2	.0	1.3		
	11-21	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3		
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0		
	TOT %	.0	.2	.7	.2	.1	.2	.3	.2	.0	.3	2.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	
	4-10	.3	.1	.3	.2	.0	.0	.0	.2	.0	1.0		
	11-21	.0	.1	1.0	.1	.3	.2	.0	.0	.0	1.6		
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	TOT %	.3	.2	1.3	.2	.3	.2	.0	.2	.0	.7	3.3	
2<5	0-3	.0	.0	.0	.0	.2	.0	.2	.0	.0	.5	.8	
	4-10	.4	.7	.6	.8	.6	.2	.2	.0	.0	3.4		
	11-21	.0	.2	.7	.2	.2	.0	.0	.0	.0	1.3		
	22+	.0	.0	1.2	.2	.0	.0	.0	.0	.0	1.5		
	TOT %	.4	.9	2.5	1.3	.9	.2	.3	.0	.0	.5	7.0	
5<10	0-3	.0	.2	.0	.3	.3	.0	.2	.3	.0	1.5	2.8	
	4-10	1.4	.9	1.9	1.5	1.5	1.7	1.1	.7	.0	10.7		
	11-21	.0	.4	2.0	1.1	.9	.6	.2	.2	.0	5.4		
	22+	.0	.6	1.9	.3	.1	.0	.0	.0	.0	2.9		
	TOT %	1.4	2.2	5.7	3.2	2.9	2.2	1.5	1.2	.0	1.5	21.8	
10+	0-3	.6	.7	.4	.7	1.2	1.2	.4	.9	.0	7.3	13.3	
	4-10	2.6	2.9	5.0	3.8	4.7	5.1	5.1	1.2	.0	30.6		
	11-21	.5	2.8	4.1	1.8	1.5	2.2	3.3	.9	.0	17.1		
	22+	.0	.4	1.1	.3	.1	.4	.1	.0	.0	2.4		
	TOT %	3.7	6.8	10.6	6.7	7.5	8.9	8.9	3.0	.0	7.3	63.4	
TOT OBS													615
TOT PCT		6.0	10.6	21.3	11.8	11.7	11.8	11.2	4.7	.0	10.9	100.0	

AUGUST

PERIOD: (PRIMARY) 1962-1976  
(OVER-ALL) 1934-1976VALDEZ MARINE AREA  
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND  
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00603	5.2	2.0	5.9	17.6	23.5	15.0	5.2	1.3	.7	.0	76.5	23.5	153
06609	4.9	4.9	11.7	18.4	16.5	10.7	1.0	1.0	.0	.0	68.9	31.1	103
12615	13.8	4.1	7.6	18.6	17.2	6.2	.0	1.4	2.1	.0	71.0	29.0	145
18621	13.3	4.7	6.3	14.8	16.4	9.4	1.6	.8	1.0	.0	68.8	31.3	128
TOT	30	20	40	92	99	55	11	6	6	0	379	150	529
PCT	9.5	3.8	7.6	17.4	18.7	10.4	2.1	1.1	1.1	.0	71.6	28.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	3.0	1.8	4.2	3.6	19.4	67.9	105
06609	.0	2.4	3.9	9.4	24.4	59.8	127
12615	2.8	2.8	2.8	8.4	23.6	59.6	178
18621	3.2	2.5	2.5	7.0	19.7	65.0	157
TOT	15	15	21	44	136	396	627
PCT	2.4	2.4	3.3	7.0	21.7	63.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NM >4/8), BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00603	5.3	13.8	34.9	41.4	23.7	152
06609	4.9	22.5	42.2	27.5	30.4	102
12615	14.0	25.9	46.9	24.5	28.7	143
18621	13.9	24.6	41.0	31.1	27.9	122
TOT	50	111	213	164	142	519
PCT	9.6	21.4	41.0	31.6	27.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.2	.2	.0	.0	.2	.0	.0	3	.6
65/69	.0	.0	.0	.2	.0	.4	.0	.2	4	.8
60/64	.0	.2	.0	.6	.6	2.7	3.6	1.3	43	9.0
55/59	.0	.0	.4	.2	2.1	8.2	25.8	19.1	266	55.9
50/54	.0	.0	.0	.0	.2	2.1	10.1	21.0	159	33.4
45/49	.0	.0	.0	.0	.0	.0	.2	.0	1	.2
TOTAL	0	2	3	5	14	65	189	198	476	100.0
PCT	.0	.4	.6	1.1	2.9	13.7	39.7	41.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.4	.0	.0	.2	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.6	.2	.0	.0
.9	1.1	.9	.5	.9	1.5	1.3	.7	.0	1.3
2.7	4.7	12.0	7.7	7.6	8.0	6.6	1.8	.0	4.8
2.3	4.8	8.2	4.1	2.5	2.2	2.2	2.4	.0	4.6
.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
6.6	10.6	21.1	12.6	10.9	11.7	10.7	5.1	.0	10.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	74	73	65	57	52	52	51	57.7	163
06609	63	62	60	55	52	50	50	55.5	127
12615	60	59	58	54	52	50	49	54.5	177
18621	67	66	62	55	51	46	41	55.9	158
TOT	74	66	62	55	52	50	41	55.9	627

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	4.8	4.8	21.4	38.9	30.2	83	126		
06609	.0	1.9	1.9	12.6	40.8	42.7	88	103		
12615	.0	1.5	1.5	8.8	37.2	51.1	89	137		
18621	.0	.0	4.3	12.8	41.9	41.0	88	117		
TOT	0	10	15	67	191	200	87	483		

## AUGUST

PERIOD: (PRIMARY) 1962-1976  
(OVER-ALL) 1934-1976

TABLE 17

VALDEZ MARINE AREA  
59.8N 146.3W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	43 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.2	.0	.2	.2	.2	4	.2	.6
11/13	.0	.0	.0	.0	.0	.0	.4	.2	.4	5	.0	1.1
9/10	.0	.0	.0	.0	.0	.4	.2	.0	.0	3	.0	.6
7/8	.0	.0	.0	.0	1.3	1.9	.2	.0	.0	16	.0	3.4
6	.0	.0	.2	.6	1.3	.2	.0	.0	.0	11	.0	2.3
5	.0	.0	.0	.4	2.3	1.3	.0	.0	.0	19	.2	3.8
4	.0	.0	.0	1.7	3.2	.4	.0	.0	.0	23	.2	5.1
3	.0	.0	.0	3.6	2.1	.6	.0	.0	.0	30	1.1	5.3
2	.0	.0	.2	6.5	2.9	.4	.0	.0	.0	48	1.5	8.6
1	.0	.0	.0	5.9	2.5	.0	.0	.2	.0	41	1.1	7.6
0	.0	.0	1.3	7.6	3.4	.2	.0	.0	.0	60	2.3	10.3
-1	.0	.0	1.1	7.8	3.6	.2	.0	.0	.0	60	.6	12.0
-2	.0	.0	.8	6.5	2.1	.0	.0	.0	.0	48	.4	9.1
-3	.0	.0	.4	4.8	.4	.0	.0	.0	.0	27	.0	3.7
-4	.0	.0	2.3	2.3	1.7	.0	.0	.0	.0	30	.4	3.9
-5	.0	.0	1.3	3.4	.4	.0	.0	.0	.0	25	.2	5.1
-6	.0	.0	.2	1.7	.2	.0	.0	.0	.0	10	.0	2.1
-7/-8	.0	.0	.0	.6	.0	.0	.0	.0	.0	3	.0	.6
-9/-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.2
-14/-16	.2	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	1	0	45	260	131	27	5	3	3	473	40	435
PCT	.2	.0	9.5	54.7	27.6	5.7	1.1	.6	.6	100.0	8.4	91.6

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	2.5	.0	.0	.0	.0	3.3	.7	1.2	.3	.0	.0	.0	2.1
1-2	.0	.9	.2	.0	.0	.0	1.1	.0	1.8	2.0	.0	.0	.0	3.8
3-4	.0	.9	.0	.0	.0	.0	.9	.0	.1	.6	.6	.0	.0	1.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.7	.4	.1	.0	.0	1.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.2	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	4.3	.2	.0	.0	.0	3.3	.7	3.8	3.3	.7	.1	.0	8.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	3.3	.3	.0	.0	.0	4.1	.9	3.6	.0	.0	.0	.0	4.6
1-2	.0	3.6	2.1	.0	.0	.0	5.7	.0	3.3	1.0	.0	.0	.0	4.3
3-4	.0	1.0	3.3	1.2	.0	.0	3.5	.3	.9	.9	.1	.0	.0	2.2
5-6	.0	.2	1.9	1.4	.0	.0	3.5	.0	.3	.9	.0	.0	.0	1.2
7	.0	.2	.8	1.1	.3	.0	2.4	.0	.0	.4	.6	.0	.0	.9
8-9	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	.2	.2	.0	.4	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.7	.2	.0	.9	.0	.0	.0	.1	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	8.3	8.4	4.6	1.0	.0	22.8	1.2	9.1	3.1	1.2	.1	.0	13.7

PERIOD: (OVER-ALL) 1963-1976

AUGUST

VALDEZ MARINE AREA  
59.8N 146.3W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+				
<1	.6	3.9	.0	.0	.0	.0	4.6		.7	2.4	.0	.0	.0	.0	3.1		
1-2	.0	2.9	.9	.0	.0	.0	3.6		.1	2.4	.4	.0	.0	.0	2.8		
3-4	.0	1.1	.4	.2	.0	.0	1.7		.0	2.3	1.8	.0	.0	.0	4.4		
5-6	.0	.0	1.2	.0	.0	.0	1.2		.0	.0	.9	.3	.0	.0	1.2		
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.3	.0	.0	.0	.3		
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.6	7.8	2.1	.2	.0	.0	10.8		.7	7.3	3.3	.3	.0	.0	11.7		

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+				
<1	.8	2.5	.3	.0	.0	.0	3.6		.9	.7	.0	.0	.0	.0	1.6		
1-2	.2	3.1	1.4	.0	.0	.0	4.7		.3	.7	.6	.0	.0	.0	1.6		
3-4	.0	1.6	1.3	.0	.0	.0	2.9		.0	.3	.7	.0	.0	.0	.9		
5-6	.0	.0	.9	.0	.0	.0	.9		.0	.0	.0	.0	.0	.0	.0		
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0		.1	.0	.0	.0	.0	.0	.1		
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
TOT PCT	1.0	7.1	3.9	.0	.0	.0	12.0		1.2	1.7	1.2	.0	.0	.0	4.2	89.2	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	16.6	20.1	.9	.0	.0	.0	37.5	
1-2	.6	18.6	8.1	.0	.0	.0	27.3	
3-4	.3	8.6	9.0	2.0	.0	.0	19.8	
5-6	.0	1.2	6.1	1.7	.0	.0	9.0	
7	.0	.3	1.2	1.7	.3	.0	3.5	
8-9	.0	.0	.3	.3	.3	.0	.9	
10-11	.0	.0	.0	.3	.3	.0	.6	
12	.0	.0	.0	.9	.3	.0	1.2	
13-16	.3	.0	.0	.0	.0	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	17.7	48.5	25.6	7.0	1.2	.0	100.0	344

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.6	17.3	12.4	5.9	2.3	1.3	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	210	3
6-7	.0	3.8	8.2	7.2	2.1	3.0	1.1	.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	124	5
8-9	.0	.8	.4	1.1	1.3	.8	.8	.4	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	84	6
10-11	.0	.0	.0	.2	.8	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	5
12-13	.0	.0	.0	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	5
>13	.0	.0	.0	.2	.2	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	11
INDEX	13.2	.0	.6	.8	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	81	1
TOTAL	94	106	118	74	32	28	10	6	1	4	0	1	0	0	0	0	0	0	0	474	3
PCT	19.8	22.4	24.9	15.6	6.8	5.9	2.1	1.3	.2	.8	.0	.2	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1962-1976  
(OVER-ALL) 1962-1976

VALDEZ MARINE AREA  
59.7N 146.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHMR	DRZL	PRZG PCPN	SNOW	OTHER PRIN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG MEA
N	11.3	.0	.0	.0	.0	.0	.0	11.3	3.8	.0	3.8	.0	.0	.0	81.1
NE	10.1	1.6	13.2	.0	.0	.0	.0	21.8	3.9	.0	1.9	.0	1.6	.0	70.8
E	20.5	.0	12.8	.0	.0	.0	.0	32.8	8.6	.0	2.5	.7	.7	.7	53.9
SE	30.2	3.3	11.9	.0	.0	.0	.0	45.2	12.7	1.1	2.8	.0	.0	.0	38.2
S	16.1	2.0	8.0	.0	.0	.0	.0	26.1	2.0	.0	3.5	2.0	.0	.0	66.3
SW	10.0	.0	5.3	.0	.0	.0	.0	15.3	2.7	.0	2.7	.0	2.7	.0	76.7
W	.0	1.9	.0	.0	.0	.0	.0	1.9	1.9	.0	.0	.0	1.9	.0	94.4
NW	.0	4.8	.0	.0	.0	.0	.0	4.8	.0	.0	.0	.0	.0	.0	90.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4	.0	7.3	.0	.0	.0	.0	9.8	2.4	.0	4.9	.0	2.4	.0	80.5
TOT PCT	14.9	1.3	8.8	.0	.0	.0	.0	24.5	6.1	.2	2.5	.4	1.0	.2	65.2
TOT OBS:	523														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHMR	DRZL	PRZG PCPN	SNOW	OTHER PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG MEA
0000Z	14.0	.0	10.3	.0	.0	.0	.0	23.5	6.6	.0	2.9	.7	1.5	.7		64.0
0600Z	11.3	1.4	9.2	.0	.0	.0	.0	22.0	6.4	.7	1.4	.0	.7	.0		68.8
1201Z	14.6	1.6	7.3	.0	.0	.0	.0	22.8	4.9	.0	2.4	.0	.0	.0		69.9
1802Z	19.5	2.3	8.3	.0	.0	.0	.0	29.3	6.0	.0	3.8	.8	1.5	.0		58.6
TOT PCT TOT OBS:	14.8 593	1.3	8.8	.0	.0	.0	.0	24.4	6.0	.2	2.6	.4	.9	.2		65.3

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	21
N	.7	2.0	1.4	.6	.4	.0		5.0	13.9		4.0	.0	6.2	100.0	4.0	.0	7.3
NE	.3	4.6	3.2	1.8	.3	.0		12.2	14.5		11.8	.0	7.2	.0	15.0	.0	15.7
E	.7	8.0	9.1	5.3	3.2	.2		26.5	18.7		29.8	.0	27.0	.0	17.7	.0	30.5
SE	.5	4.0	7.7	4.3	.7	.0		17.3	16.8		13.2	.0	17.8	.0	23.5	.0	15.7
S	.7	4.5	3.6	.5	.3	.0		9.6	11.9		8.6	.0	13.8	.0	8.3	.0	7.7
SW	.0	3.5	2.1	.6	.3	.0		7.3	11.9		8.5	100.0	6.3	.0	5.0	.0	8.9
W	.3	5.3	3.6	.7	.3	.0		10.3	12.1		10.1	.0	11.8	.0	12.1	.0	7.3
NW	.2	1.9	1.9	.0	.0	.0		4.0	11.3		3.7	.0	5.4	.0	6.0	.0	1.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0
CALM	7.8							7.8	.0		10.3	.0	6.5	.0	8.3	.0	5.5
TOT OBS	63	178	182	73	29	1	526		14.0		126	1	138	1	120	0	127
TOT PCT	12.0	33.8	34.6	13.9	5.5	.2		100.0			100.0	100.0	100.0	100.0	100.0	.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	1.7	1.9	.7	.0	.2		5.0	13.9	4.0	4.9	4.0	7.3	
NE	2.2	5.7	3.2	1.1	.0		12.2	14.5	11.7	7.2	15.0	15.6	
E	4.6	8.3	7.5	5.4	.6		26.5	18.7	29.8	26.8	17.7	31.2	
SE	2.5	6.8	6.0	1.7	.1		17.3	16.8	13.1	17.6	23.5	13.4	
S	2.3	5.1	1.9	.3	.0		9.6	11.9	8.6	13.7	8.3	7.5	
SW	2.2	3.1	1.7	.3	.0		7.3	11.9	9.1	6.3	5.0	8.7	
W	2.3	3.5	2.2	.3	.0		10.3	12.1	10.0	11.7	12.1	7.3	
NW	.3	3.2	.5	.0	.0		4.0	11.3	3.6	5.4	6.0	1.0	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	7.8						7.8	.0	10.3	6.5	8.3	6.2	
TOT OBS	136	208	123	51	6	526		14.0	137	139	120	130	
TOT PCT	25.9	39.5	23.8	9.7	1.1		100.0		100.0	100.0	100.0	100.0	

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PERIOD: (PRIMARY) 1962-1976  
(OVER-ALL) 1942-1976

VALDEZ MARINE AREA  
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000	10.2	2.9	36.5	26.3	13.9	9.5	.7	14.6	100.0	137	
0600	6.5	2.9	38.1	35.3	12.9	4.3	.0	13.8	100.0	139	
1200	8.3	7.5	35.0	35.8	11.7	1.7	.0	12.1	100.0	120	
1800	6.2	3.8	25.4	41.5	16.9	6.2	.0	15.5	100.0	130	
TOT	41	22	178	182	73	29	1	14.0		526	
PCT	7.8	4.2	33.8	34.6	13.9	5.3	.2		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	2.0	.2	1.4	1.8		4.7
NE	1.7	.7	4.2	5.8		6.3
E	1.2	1.3	6.1	16.5		7.0
SE	.8	.7	3.0	12.5		7.2
S	1.2	.2	2.5	5.4		6.5
SW	.6	.8	2.3	3.7		6.4
W	2.7	1.4	4.5	2.3		5.0
NW	1.9	.5	.3	.6		3.5
VAR	.0	.0	.0	.0		.0
CALM	2.4	1.2	1.5	3.2		4.4
TOT OBS	63	29	105	212	409	6.2
TOT PCT	15.4	7.1	25.7	51.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3999	4999	6499	7999			
N	.2	.2	.2	.7	.0	1.1	.0	.0	.0	.0	2.8	
NE	.2	.0	.9	2.6	2.8	2.4	.2	.2	.0	.0	2.9	
E	1.6	.0	2.4	6.1	6.8	4.2	1.2	.0	.0	.0	2.8	
SE	2.7	.0	.7	3.5	5.4	1.7	.4	.0	.0	.0	2.8	
S	1.2	1.0	.5	1.1	1.1	1.6	.4	.5	.0	.0	1.9	
SW	.4	.1	.0	.9	1.5	1.9	.2	.0	.2	.0	2.2	
W	.0	.2	.4	.4	2.4	.9	.0	.2	.2	.0	6.2	
NW	.0	.0	.1	.2	.0	.5	.0	.0	.0	.0	2.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.5	.0	.7	.2	2.0	.5	.7	.0	.0	.0	4.6	
TOT OBS	28	6	24	65	90	60	13	4	2	0	117	409
TOT PCT	6.8	1.5	5.9	15.9	22.0	14.7	3.2	1.0	.5	.0	28.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	= OR >10			= OR >2			= OR >1/2			= OR >1/4			= OR >50YD			= OR >0		
	= OR >10	= OR >2	= OR >1/2	= OR >10	= OR >2	= OR >1/2	= OR >10	= OR >2	= OR >1/2	= OR >10	= OR >2	= OR >1/2	= OR >10	= OR >2	= OR >1/2	= OR >10	= OR >2	= OR >1/2
= OR >5000	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5
= OR >5000	1.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
= OR >3500	4.1	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
= OR >2000	12.5	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3
= OR >1000	25.8	37.1	39.8	41.2	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
= OR >600	34.5	50.8	55.2	57.5	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
= OR >300	36.1	54.5	60.5	63.1	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
= OR >150	36.9	55.7	61.9	64.6	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
= OR >0	37.3	57.2	65.5	70.6	71.3	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
TOTAL	155	236	272	293	296	297	297	297	297	297	297	297	297	297	297	297	297	297

TOTAL NUMBER OF OBS: 415

PCT FREQ NH <5/8: 28.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
7.3	4.1	6.6	3.9	5.7	5.0	10.3	14.2	37.1	5.7	437

PERIOD: (PRIMARY) 1962-1976  
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.4	
1/2<1	PCP	.0	.0	.4	.2	.2	.0	.0	.0	.0	.0	.8	
	NO PCP	.0	.0	.0	.4	.2	.0	.0	.0	.0	.0	.6	
	TOT %	.0	.0	.4	.6	.4	.0	.0	.0	.0	.0	1.4	
1<2	PCP	.2	.3	1.3	1.3	.1	.0	.0	.0	.0	.0	3.3	
	NO PCP	.0	.0	.7	.1	.1	.0	.0	.0	.0	.0	1.0	
	TOT %	.2	.3	2.0	1.4	.2	.0	.0	.0	.0	.0	4.3	
2<5	PCP	.4	.8	2.2	2.1	.3	.3	.0	.0	.0	.4	6.3	
	NO PCP	.0	.2	1.1	.8	.2	.7	.0	.0	.0	.2	3.3	
	TOT %	.4	1.0	3.3	2.9	.5	1.0	.0	.0	.0	.6	9.6	
5<10	PCP	.0	.8	3.6	2.4	.9	.4	.0	.2	.0	.4	8.7	
	NO PCP	1.1	2.3	3.9	1.7	2.2	1.3	1.3	.4	.0	.8	15.4	
	TOT %	1.1	3.1	7.5	4.1	3.1	1.7	1.3	.6	.0	1.2	24.0	
10+	PCP	.0	.8	1.2	1.7	1.0	.4	.2	.0	.0	.0	3.2	
	NO PCP	3.5	7.1	12.2	6.3	4.3	4.4	7.8	3.4	.0	6.0	54.8	
	TOT %	3.5	7.9	13.4	8.0	5.3	4.8	8.0	3.4	.0	6.0	60.0	
TOT OBS													520
TOT PCT		5.1	12.4	26.5	17.1	9.6	7.2	10.2	4.0	.0	7.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	
	22+	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	.8	
	TOT %	.0	.0	.4	.6	.0	.0	.0	.0	.0	.0	1.4	
1<2	0-3	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.1	.3	.0	.1	.0	.0	.0	.0	.0	.6	
	11-21	.2	.1	.6	.2	.0	.0	.0	.0	.0	.0	1.2	
	22+	.0	.2	1.1	.9	.1	.0	.0	.0	.0	.0	2.3	
	TOT %	.2	.4	2.0	1.3	.2	.0	.0	.0	.0	.0	4.2	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.3	.4	.0	.4	.0	.0	.0	.0	1.7	
	11-21	.0	.5	.9	1.0	.1	.0	.2	.0	.0	.0	2.7	
	22+	.4	.5	2.2	1.3	.3	.0	.0	.0	.0	.0	5.0	
	TOT %	.4	1.0	3.4	2.6	.5	.5	.2	.0	.0	.0	10.0	
5<10	0-3	.2	.0	.3	.0	.0	.2	.0	.0	.0	1.2	1.9	
	4-10	.5	1.2	1.6	.8	1.3	1.0	.8	.4	.0	.0	7.3	
	11-21	.0	1.2	2.7	2.0	1.4	.3	.7	.2	.0	.0	8.6	
	22+	.4	.7	2.7	1.2	.3	.4	.2	.0	.0	.0	6.0	
	TOT %	1.1	3.1	7.4	4.1	3.1	1.9	1.3	.6	.0	1.2	24.0	
10+	0-3	.5	.2	.4	.3	.7	.6	.3	.2	.0	6.0	9.2	
	4-10	1.5	3.4	5.8	2.5	2.9	1.9	4.0	1.4	.0	.0	23.8	
	11-21	1.2	3.8	4.8	4.5	1.7	1.7	4.8	1.7	.0	.0	21.9	
	22+	.2	.7	2.3	.6	.0	.3	.9	.0	.0	.0	5.2	
	TOT %	3.5	7.8	13.3	8.0	5.3	4.8	8.0	3.4	.0	6.0	59.9	
TOT OBS													521
TOT PCT		5.1	12.3	26.6	17.1	9.5	7.2	10.2	4.0	.0	7.9	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1962-1976  
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND  
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00603	6.7	.8	7.5	15.0	23.3	15.0	3.3	1.7	.0	.0	75.3	26.7	120
06609	5.4	3.6	6.3	14.4	23.4	12.6	4.5	.9	.9	.0	72.1	27.9	111
12615	4.5	1.1	4.5	14.6	19.1	12.4	1.1	.0	1.1	.0	58.4	41.6	89
18621	10.9	.0	4.0	19.8	22.8	17.8	3.0	1.0	.0	.0	79.2	20.8	101
TOT	29	6	24	67	94	61	13	4	2	0	300	121	421
PCT	6.9	1.4	5.7	15.9	22.3	14.5	3.1	1.0	.3	.0	71.3	28.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00603	.7	1.5	7.3	8.0	26.3	56.2	137
06609	.7	1.4	3.3	11.3	22.0	61.0	141
12615	.0	2.5	3.3	7.4	25.4	61.5	122
18621	.8	.0	3.8	13.0	22.9	59.5	131
TOT	3	7	24	53	128	316	531
PCT	.6	1.3	4.5	10.0	24.1	59.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 430YD	<600 CL	<1000 CS	1000+ ANDS+	NM <5/8 AND 5+	TOTAL OBS
00603	6.8	16.1	36.4	37.3	26.3	118
06609	5.5	15.5	35.3	37.3	27.3	110
12615	4.6	10.3	28.7	31.0	40.2	87
18621	11.0	15.0	37.0	42.0	21.0	100
TOT	29	60	144	154	117	415
PCT	7.0	14.5	34.7	37.1	28.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
63/69	.0	.0	.0	.3	.0	.0	.0	.0	2	.5
60/64	.0	.0	.0	.0	1.6	.8	.3	.0	10	2.7
59/59	.0	.3	.3	.0	1.1	3.4	7.7	8.2	79	21.0
50/54	.0	.0	.3	.3	3.7	7.7	23.3	23.9	224	59.4
43/49	.0	.0	.5	.5	1.3	1.3	5.6	5.8	57	15.1
40/44	.0	.0	.0	.0	.3	.3	.3	.0	4	1.1
35/39	.0	.0	.0	.0	.0	.3	.0	.0	1	.3
TOTAL	0	1	4	6	30	52	141	143	377	100.0
PCT	.0	.3	1.1	1.6	8.0	13.8	37.4	37.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
.3	.3	.3	.0	.5	.1	.0	.3	.0	.8
1.1	1.1	7.3	2.5	2.0	2.1	2.8	.3	.0	1.9
1.9	7.9	14.8	11.5	6.6	3.6	5.6	2.2	.0	5.0
1.1	2.0	3.3	2.3	1.2	1.3	1.3	1.5	.0	1.1
.0	.1	.2	.1	.2	.1	.2	.0	.0	.3
.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
4.3	11.8	26.9	16.3	10.7	7.2	9.8	4.2	.0	9.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	65	64	61	54	48	45	42	53.7	135
06609	63	62	57	52	47	44	42	52.0	140
12615	61	59	54	51	46	43	38	50.4	119
18621	63	62	59	52	47	45	42	52.3	132
TOT	65	62	59	52	47	43	38	52.3	526

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	4.0	12.9	13.9	34.7	34.7	63			101
06609	.0	2.9	7.8	12.7	39.2	37.3	85			102
12615	.0	3.6	4.8	13.1	39.3	39.3	86			84
18621	.0	2.1	5.3	15.8	36.8	40.0	86			93
TOT	0	12	30	53	143	144	385			382

PERIOD: (PRIMARY) 1962-1976  
(OVER-ALL) 1942-1976

# SEPTEMBER

VALDEZ MARINE AREA  
59.7N 146.3W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	N FOG	MO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.2	1	.0	.2
11/13	.0	.0	.0	.0	.0	.2	.4	.0	3	.0	.7
9/10	.0	.0	.0	.0	.0	.0	.2	.0	1	.0	.2
7/8	.0	.0	.0	.0	.2	.2	.7	.0	5	.0	1.1
6	.0	.0	.0	.0	.4	.7	.2	.2	7	.0	1.6
5	.0	.0	.0	.0	2.0	.9	.0	.0	13	.0	2.9
4	.0	.0	.0	.2	2.0	.7	.2	.0	14	.2	2.9
3	.0	.0	.0	.7	2.9	.9	.0	.0	20	.0	4.5
2	.0	.0	.0	2.5	2.0	.2	.0	.0	21	.2	4.5
1	.0	.0	.0	5.1	4.0	1.1	.2	.0	47	.4	10.1
0	.0	.0	.2	3.4	5.4	.2	.0	.0	41	.2	8.9
-1	.0	.0	.4	2.9	5.8	.7	.0	.0	44	.4	9.4
-2	.0	.0	.9	5.8	3.8	.4	.0	.0	49	.4	10.3
-3	.0	.0	.2	5.1	1.4	.7	.0	.0	34	.2	7.4
-4	.0	.2	1.3	4.0	2.9	.0	.0	.0	38	.0	8.5
-5	.0	.0	1.6	3.4	1.1	.4	.0	.0	29	.2	6.3
-6	.0	.2	1.3	3.8	.4	.2	.0	.0	27	.2	5.8
-7/-8	.0	.0	1.8	3.4	.0	.0	.0	.0	23	.0	5.1
-9/-10	.0	.0	2.0	1.8	.0	.0	.0	.0	17	.2	3.6
-11/-12	.2	.4	.4	1.3	.0	.0	.0	.0	11	.0	2.3
-14/-16	.0	.2	.2	.0	.0	.0	.0	.0	2	.0	.4
TOTAL	1	5	47	194	159	34	9	.0	447	13	434
PCT	.2	1.1	10.5	43.4	34.7	7.6	2.0	.4	100.0	2.9	97.1

PERIOD: (OVER-ALL) 1962-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	1.3	.0	.0	.0	.0	2.2	.2	1.7	.0	.0	.0	.0	1.9
1-2	.0	1.0	1.0	.0	.0	.0	2.0	.0	1.4	.0	.0	.0	.0	1.4
3-4	.0	.0	.4	.4	.0	.0	.7	.0	.8	2.1	.8	.0	.0	4.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.8	.7	.0	.0	3.7
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.2	.0	2.6
8-9	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	2.2	1.8	.7	.0	.0	9.2	.2	4.0	6.7	1.7	.2	.0	12.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	2.0	.0	.0	.0	.0	2.6	.4	.8	.0	.0	.0	.0	1.2
1-2	.0	4.3	3.7	.0	.0	.0	8.2	.1	1.4	1.0	.0	.0	.0	3.1
3-4	.0	1.0	3.9	2.1	.0	.0	7.0	.0	1.2	3.0	1.4	.0	.0	3.6
5-6	.0	.5	2.0	.7	.0	.0	3.2	.0	.1	1.1	.4	.0	.0	1.5
7	.0	.0	1.5	.9	1.3	.0	3.7	.0	.0	.8	1.9	.0	.0	2.7
8-9	.0	.0	.0	.6	.5	.0	1.2	.0	.0	.0	.1	.6	.0	.7
10-11	.0	.0	.0	1.1	.4	.0	1.7	.0	.0	.7	.3	.4	.0	1.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.4	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	8.3	11.1	5.4	2.4	.0	27.9	.4	3.3	7.2	4.0	1.1	.0	16.2

PERIOD: (OVER-ALL) 1963-1976

SEPTEMBER

TABLE 18 (CONT)

VALDEZ MARINE AREA  
59.7N 146.3W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.4	.0	.0	.0	.0	2.4	.0	.4	.0	.0	.0	.0	.4
1-2	.3	.9	.4	.0	.0	.0	1.9	.0	1.4	.7	.0	.0	.0	2.2
3-4	.0	1.6	1.3	.4	.0	.0	3.3	.7	.9	.9	.4	.0	.0	2.9
5-6	.0	.4	.9	.0	.0	.0	1.5	.0	.4	.8	.0	.1	.0	1.3
7	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	5.3	3.3	.4	.5	.0	9.8	.8	3.0	2.4	.7	.1	.0	7.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.4	.4	.0	.0	.0	.0	1.0	.1	.2	.0	.0	.0	.0	.3	
1-2	.3	2.5	1.1	.0	.0	.0	3.9	.0	.8	1.1	.0	.0	.0	2.2	
3-4	.0	2.3	.6	.0	.0	.0	3.0	.0	.4	1.1	.0	.0	.0	1.5	
5-6	.0	.0	1.2	.0	.0	.0	1.2	.0	.0	.2	.0	.0	.0	.2	
7	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	5.3	2.9	.0	.4	.0	9.3	.1	1.4	2.7	.0	.0	.0	4.2	92.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.0	9.3	.0	.0	.0	.0	19.4	
1-2	.7	14.0	12.5	.0	.0	.0	27.2	
3-4	.7	8.2	13.3	9.4	.0	.0	27.6	
5-6	.0	1.4	7.9	1.8	.4	.0	11.5	
7	.0	.0	3.2	2.9	1.6	.0	7.9	
8-9	.0	.0	.0	1.4	1.4	.0	2.9	
10-11	.0	.0	.7	1.4	1.1	.0	3.2	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.4	.0	.0	.0	.0	.4	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.5	33.3	37.6	12.9	4.7	.0	100.0	279

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.0	11.2	9.6	6.8	3.3	1.6	.5	.7	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	192	4
6-7	.2	2.1	3.8	3.1	5.6	1.4	1.2	.9	.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	101	6
8-9	.0	1.2	1.4	1.6	3.5	1.6	.7	.5	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	91	7
10-11	.0	.7	1.4	1.6	.7	1.2	1.6	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39	7
12-13	.0	.0	1.6	1.2	.5	.2	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	19	7
13-14	.0	.0	.0	.5	1.4	.2	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	8
INDEX	6.5	2.6	.5	.7	.7	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	2
TOTAL	42	76	87	75	67	28	20	13	17	0	3	0	0	0	0	0	0	0	0	428	5
PCT	9.8	17.8	20.3	17.5	15.7	6.5	4.7	3.0	4.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG NO PCPN	FGG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	10.4	.0	2.0	.0	2.8	.0	.0	15.2	3.1	.0	1.1	.0	2.0	3.1	75.5
NE	24.3	.0	8.0	.0	2.0	.0	.0	31.7	4.3	.0	3.4	.0	.3	.0	60.3
E	40.9	.9	4.4	.0	1.6	.0	.0	46.2	9.9	.0	.9	.0	.0	.0	42.0
SE	30.5	1.4	9.5	.0	.0	.0	.0	41.4	4.2	.0	.0	.0	.0	.0	54.4
S	16.4	1.5	5.0	.0	.0	.0	1.5	24.4	5.3	.0	.0	.0	.0	.0	70.2
SW	6.5	.0	9.4	.0	.0	.0	.0	14.8	4.9	.0	.4	.0	.0	.0	79.8
W	.0	2.1	2.1	.0	2.1	.0	.0	6.4	3.7	.0	1.6	.0	3.7	.0	84.5
NW	4.1	.0	1.6	.0	.0	.0	.0	5.7	.0	.0	.0	.0	.4	.4	89.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	19.4	.0	6.5	.0	.0	.0	.0	22.6	.0	.0	.0	.0	.0	.0	77.4
TOT PCT	19.2	.6	5.3	.0	1.1	.0	.2	25.6	5.0	.0	1.0	.2	.6	.5	67.3
TOT OBS:	626														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
HR GMT	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
0000Z	15.3	1.8	6.5	.0	1.2	.0	.0	24.7	4.7	.0	1.2	.6	1.2	.6		67.1
0600Z	21.8	.0	7.7	.0	.6	.0	.0	29.5	3.2	.0	.0	.0	.6	.6		66.0
1201Z	19.7	.0	4.8	.0	.7	.0	.0	23.2	2.0	.0	1.4	.0	.0	.7		70.7
1802Z	18.2	1.1	2.8	.0	2.3	.0	.6	22.7	8.5	.0	2.3	.0	.6	.0		65.9
TOT PCT	18.6	.8	5.4	.0	1.2	.0	.2	25.4	4.8	.0	1.2	.2	.6	.5		67.3
TOT OBS:	649															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	0-3	WIND SPEED (KNOTS)					48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
		4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21
N	.4	5.2	7.3	.8	.4	.0		14.1	14.0	15.7	.0	13.1	.0	13.1	50.0	14.5	9.4
NE	.4	4.3	5.6	2.9	.6	.2		14.0	16.6	13.0	30.0	11.6	.0	12.9	.0	17.1	28.1
E	.7	3.6	3.2	5.4	3.0	1.2		17.1	23.3	18.0	.0	18.5	.0	14.9	.0	16.3	37.5
SE	.2	3.0	4.5	2.6	.9	.0		11.3	17.9	13.0	.0	11.9	.0	13.1	.0	7.5	15.6
S	.2	4.7	4.4	.8	.4	.0		10.4	13.4	9.9	30.0	11.6	100.0	8.6	50.0	10.1	9.4
SW	.4	4.5	4.3	1.3	.2	.2		10.8	14.1	11.3	.0	9.6	.0	10.5	.0	12.7	.0
W	.3	2.5	3.9	.6	.0	.1		7.4	13.9	7.1	.0	6.0	.0	6.6	.0	10.1	.0
NW	.4	3.7	3.3	.5	.2	.0		10.0	10.9	8.7	.0	11.1	.0	11.2	.0	10.1	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.9							4.9	.0	3.1	.0	6.5	.0	9.1	.0	1.8	.0
TOT OBS	69	212	231	95	36	11	634		15.4	161	2	133	1	143	2	164	8
TOT PCT	7.7	33.4	36.4	13.0	5.7	1.7		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	2.7	6.5	3.9	1.0	.0		14.1	14.0	15.3	13.0	13.6	14.2		
NE	1.8	6.6	3.8	1.3	.5		14.0	16.6	13.5	11.5	12.8	17.6		
E	1.7	5.0	3.5	5.4	1.5		17.1	23.3	17.8	18.3	14.7	17.3		
SE	1.6	4.2	3.2	2.1	.2		11.3	17.9	12.9	11.9	12.9	7.8		
S	1.7	6.1	2.0	.6	.2		10.4	13.9	10.4	12.2	9.1	10.0		
SW	1.8	6.3	2.0	.5	.2		10.8	14.1	11.2	9.6	10.3	12.1		
W	1.2	4.3	1.3	.4	.1		7.4	13.9	7.1	6.0	6.6	9.6		
NW	2.4	6.7	.7	.0	.2		10.0	10.9	8.6	11.0	11.0	9.6		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	4.9						4.9	.0	3.1	6.5	9.0	1.7		
TOT OBS	125	290	129	72	18	634		15.4	163	134	145	172		
TOT PCT	19.7	45.7	20.3	11.4	2.8		100.0		100.0	100.0	100.0	100.0		

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	3.1	1.2	41.1	35.0	11.7	7.4	.6	14.8	100.0	163
0400	6.3	2.0	25.3	39.6	16.9	5.8	4.2	16.2	100.0	154
1215	9.0	2.8	33.1	33.8	15.2	4.8	1.4	14.3	100.0	143
1821	1.7	4.7	33.7	37.2	16.3	4.7	1.7	15.9	100.0	172
TOT	31	18	212	231	95	36	11	15.4		636
PCT	4.9	2.8	33.4	36.4	15.0	5.7	1.7		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.8	2.3	3.1	4.4		4.3
NE	2.6	1.3	3.8	6.0		5.6
E	.7	1.6	2.8	11.4		6.9
SE	.4	.5	3.1	7.3		7.1
S	.2	.3	4.9	4.6		6.8
SW	1.0	.7	5.8	3.7		6.2
W	2.3	.8	2.1	2.2		4.6
NW	2.8	1.5	3.0	3.2		4.6
VAR	.0	.0	.0	.0		.0
CALM	1.5	1.0	1.7	1.2		4.5
TOT OBS	85	52	155	229	521	5.8
TOT PCT	16.3	10.0	29.8	44.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)  
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.5	.0	.0	.7	5.5	.8	.7	.0	.0	.0	6.4	
NE	.6	.8	.4	1.6	2.6	1.8	.7	.0	.6	.0	5.4	
E	1.1	.5	1.5	2.2	4.4	1.5	.9	.0	.2	.0	4.3	
SE	.9	.8	.2	1.6	5.3	1.4	.2	.0	.0	.0	1.5	
S	.1	.0	.6	1.0	4.0	1.1	.3	.0	.0	.0	2.4	
SW	.6	.0	.8	2.1	2.9	2.7	.7	.0	.0	.0	2.1	
W	.5	.0	.3	.9	.9	1.2	.3	.0	.0	.0	3.2	
NW	.2	.0	.2	1.6	1.5	.5	.6	.0	.0	.0	5.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.2	.4	.2	1.0	.4	.0	.0	.0	.0	3.1	
TOT OBS	25	4	19	62	136	60	23	0	4	0	188	521
TOT PCT	4.8	.8	3.6	11.9	26.1	11.5	4.4	.0	.8	.0	36.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >30YD	= OR >0
= OR >6500	.6	.6	.8	.8	.8	.8	.8	.8
= OR >5000	.6	.6	.8	.8	.8	.8	.8	.8
= OR >3500	3.6	4.7	4.9	4.9	4.9	4.9	4.9	5.1
= OR >2000	12.0	15.2	16.7	16.7	16.7	16.7	16.7	16.9
= OR >1000	25.0	34.5	40.3	42.2	42.2	42.2	42.2	42.4
= OR >600	29.5	44.3	51.2	53.8	53.8	54.0	54.0	54.2
= OR >300	30.2	46.0	54.2	57.2	57.2	57.6	57.6	57.8
= OR >150	30.2	46.2	54.6	58.0	58.0	58.3	58.3	58.5
= OR >0	30.2	46.9	57.0	61.2	62.3	62.9	63.2	63.4
TOTAL	161	250	304	326	332	335	337	338

TOTAL NUMBER OF OBS: 533

PCT FREQ NM <5/8: 36.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	12.8	3.9	5.5	7.7	7.1	8.0	10.0	9.6	31.5	3.9	562

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.2	.3	.0	.0	.2	.2	.0	.0	.8	
	NO PCP	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.2	.3	.2	.0	.2	.2	.0	.0	1.0	
1/2<1	PCP	.0	.0	.3	.3	.0	.2	.0	.0	.0	.0	1.0	
	NO PCP	.2	.0	.1	.4	.0	.2	.0	.0	.0	.0	.5	
	TOT %	.2	.0	.4	.4	.0	.5	.0	.0	.0	.0	1.4	
1<2	PCP	.2	.6	1.3	.8	.3	.0	.2	.0	.0	.5	3.8	
	NO PCP	.0	.2	.3	.2	.1	.0	.3	.0	.0	.0	1.1	
	TOT %	.2	.7	1.6	1.0	.4	.0	.4	.0	.0	.5	5.0	
2<5	PCP	1.2	1.3	2.6	.8	.8	.1	.0	.4	.0	.2	7.2	
	NO PCP	.5	1.0	.4	.7	.9	.4	.1	.2	.0	.0	4.2	
	TOT %	1.6	2.3	3.0	1.5	1.7	.5	.1	.5	.0	.2	11.4	
5<10	PCP	.6	1.3	3.3	1.9	.9	1.0	.2	.0	.0	.5	9.9	
	NO PCP	1.5	1.7	2.4	1.7	1.1	2.0	.5	1.2	.0	.2	12.3	
	TOT %	2.2	3.2	5.7	3.6	2.0	3.0	.7	1.2	.0	.6	22.2	
10+	PCP	.1	1.0	.4	.6	.6	.0	.0	.2	.0	.0	2.9	
	NO PCP	9.8	6.7	6.0	4.0	5.6	6.4	6.1	7.9	.0	3.7	56.2	
	TOT %	9.9	7.8	6.4	4.6	6.2	6.4	6.1	8.0	.0	3.7	59.0	
TOT OBS													
TOT PCT		14.1	14.0	17.3	11.4	10.5	10.4	7.5	10.0	.0	5.0	100.0	625

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SFD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.2	.2	.0	.0	.2	.0	.0	.5	
	11-21	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.3	
	22+	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.2	.3	.2	.0	.2	.2	.0	.0	1.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.2	.0	.1	.0	.0	.5	.0	.0	.0	.0	.8	
	22+	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.2	.0	.4	.4	.0	.5	.0	.0	.0	.0	1.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	4-10	.0	.2	.1	.0	.2	.0	.2	.0	.0	.0	.6	
	11-21	.1	.2	.6	.1	.1	.0	.2	.0	.0	.0	1.3	
	22+	.1	.4	.9	.6	.2	.0	.1	.0	.0	.0	2.6	
	TOT %	.2	.7	1.6	1.0	.4	.0	.4	.0	.0	.0	4.9	
2<5	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3	
	4-10	.0	.4	.6	.0	.7	.1	.0	.2	.0	.0	1.9	
	11-21	1.0	1.2	.2	.6	.9	.4	.1	.3	.0	.0	4.6	
	22+	.6	.7	2.2	.9	.1	.0	.0	.0	.0	.0	4.5	
	TOT %	1.6	2.3	3.0	1.5	1.7	.5	.1	.3	.0	.2	11.3	
5<10	0-3	.1	.0	.2	.0	.2	.2	.0	.0	.0	.6	1.4	
	4-10	1.4	.5	.5	.8	.3	1.3	.2	.9	.0	.0	6.1	
	11-21	.4	1.2	.9	2.0	1.2	.7	.4	.2	.0	.0	7.0	
	22+	.3	1.4	4.0	.8	.4	.6	.0	.0	.0	.0	7.7	
	TOT %	2.2	3.2	5.7	3.6	2.0	3.0	.7	1.2	.0	.6	22.2	
10+	0-3	.1	.3	.5	.2	.0	.2	.3	.4	.0	3.7	5.6	
	4-10	3.7	3.1	2.4	2.0	3.3	2.8	2.2	4.3	.0	.0	25.9	
	11-21	5.7	3.1	1.4	1.7	2.3	2.7	3.1	2.6	.0	.0	22.9	
	22+	.3	1.2	2.1	.8	.6	1.0	.6	.6	.0	.0	7.2	
	TOT %	9.8	7.7	6.4	4.6	6.1	6.7	6.1	8.0	.0	3.7	59.2	
TOT OBS													
TOT PCT		14.0	13.9	17.3	11.4	10.4	10.6	7.5	9.9	.0	4.9	100.0	627

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND  
OCCURRENCE OF NM <3/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <3/8 ANY HGT	TOTAL OBS
00003	4.0	.0	4.0	10.6	25.8	11.9	4.6	.0	.7	.0	61.6	38.4	151
06009	5.4	.8	6.2	6.2	25.6	14.0	3.9	.0	1.6	.0	63.6	36.4	129
12015	8.5	.0	3.1	9.2	27.7	7.7	4.6	.0	.8	.0	61.5	38.5	130
18021	1.4	2.2	.7	19.6	21.7	12.3	3.6	.0	.0	.0	61.6	38.4	138
TOT	26	4	19	63	138	63	23	0	4	0	340	208	548
PCT	4.7	.7	3.5	11.5	25.2	11.5	4.2	.0	.7	.0	62.0	38.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.8	1.2	3.5	9.4	22.4	61.8	170
06009	.6	.6	5.2	15.5	20.6	57.4	155
12015	2.0	1.4	4.7	10.1	23.0	58.8	148
18021	.6	2.3	6.2	10.2	21.5	59.3	177
TOT	8	9	32	73	142	386	650
PCT	1.2	1.4	4.9	11.2	21.8	59.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NM >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND 5+	NM <3/8 AND 5+	TOTAL OBS
00003	4.1	8.8	27.9	38.1	34.0	147
06009	5.6	12.7	31.0	34.1	34.9	126
12015	9.7	12.9	30.6	34.7	34.7	124
18021	1.5	9.9	33.8	30.9	35.3	136
TOT	27	53	164	184	185	533
PCT	5.1	9.9	30.8	34.5	34.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.0	.0	.3	.5	.3	.0	4	1.1
50/54	.0	.0	.3	.8	.8	3.0	4.9	3.8	50	13.5
45/49	.0	.0	.3	.5	7.0	11.1	16.7	12.7	179	48.2
40/44	.0	.3	.8	2.2	4.0	5.9	10.0	7.3	113	30.5
35/39	.0	.0	.0	.5	.3	2.7	.8	1.3	21	5.7
30/34	.0	.0	.0	.0	.3	.0	.3	.5	4	1.1
TOTAL	0	1	5	15	47	86	122	95	371	100.0
PCT	.0	.3	1.3	4.0	12.7	23.2	32.9	25.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	.3	.0	.5	.0	.0	.0	.0	.0	.0
1.8	.3	3.4	.9	1.9	1.2	1.3	2.0	.0	.8
5.2	6.7	8.6	6.1	8.6	4.6	2.4	3.6	.0	2.4
5.8	6.5	5.1	1.8	1.2	3.3	2.6	1.9	.0	2.2
1.5	.7	.5	.1	.2	.3	.4	1.1	.0	.8
.7	.0	.0	.0	.0	.0	.0	.3	.0	.0
15.2	14.6	17.6	9.4	11.9	9.4	6.8	9.0	.0	6.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	66	65	53	47	38	32	32	46.2	167
06009	53	53	50	45	38	32	26	44.9	156
12015	59	58	50	45	38	32	26	44.5	146
18021	64	54	52	45	37	32	25	44.8	174
TOT	66	55	51	45	38	32	25	45.1	643

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	8.3	12.0	20.4	36.1	23.1	80	108		
06009	.0	3.4	11.4	19.3	39.8	26.1	52	88		
12015	.0	5.6	18.0	31.5	23.6	21.3	78	89		
18021	.0	5.2	10.3	20.6	33.0	30.9	82	97		
TOT	0	22	49	87	127	97	81	382		

## OCTOBER

PERIOD: (PRIMARY) 1963-1976  
(OVER-ALL) 1942-1976

TABLE 17

VALDEZ MARINE AREA  
59.7N 146.1W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT FOG	N FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	2	.0	.4
11/13	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	1	.0	.2
9/10	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	1	.0	.2
6	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	1	.0	.2
5	.0	.0	.0	.0	.0	.2	.2	.2	.0	.0	.0	3	.0	.5
4	.0	.0	.0	.0	.0	.0	.4	.4	.0	.0	.0	4	.0	.7
3	.0	.0	.0	.0	.0	.7	.7	.5	.0	.0	.0	11	.0	2.0
2	.0	.0	.0	.0	.2	.2	.7	.7	.0	.0	.0	10	.0	1.8
1	.0	.0	.0	.0	.2	.9	.9	.0	.0	.0	.0	9	.0	1.6
0	.0	.0	.0	.0	.2	2.4	2.2	.0	.0	.0	.0	26	.0	4.8
-1	.0	.0	.0	.2	.4	4.0	3.3	.5	.0	.0	.0	46	.0	8.4
-2	.0	.0	.0	.0	.9	6.2	2.7	.4	.0	.0	.0	56	.0	10.2
-3	.0	.0	.0	.0	1.3	8.8	2.4	.0	.0	.0	.0	68	.0	12.4
-4	.0	.0	.0	.0	2.7	5.3	1.1	.0	.0	.0	.0	50	.0	9.1
-5	.0	.0	.0	.0	.4	2.2	5.3	.4	.0	.0	.0	43	.2	8.0
-6	.0	.0	.0	1.1	5.1	2.7	.4	.0	.0	.0	.0	51	.4	9.0
-7/-8	.0	.0	.0	1.8	7.3	2.6	.4	.0	.0	.0	.0	66	.0	12.1
-9/-10	.0	.0	.2	2.2	5.3	.7	.0	.0	.0	.0	.0	47	.2	8.4
-11/-13	.0	.0	.7	3.8	.7	.4	.2	.0	.0	.0	.0	32	.2	5.7
-14/-16	.2	.5	.5	.0	.2	.4	.0	.0	.0	.0	.0	10	.0	1.8
-17/-19	.0	.4	.2	.0	.0	.2	.0	.0	.0	.0	.0	4	.0	.7
-20/-22	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	2	.0	.4
-23/-25	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	2	.0	.4
TOTAL	3	5	9	53	225	16	0	1	1	347	5	542		
PCT	.3	.9	1.6	9.7	27.1	41.1	15.7	2.9	.0	.2	.2	100.0	.9	99.1

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	2.1	.6	.0	.0	.0	2.7	.2	1.7	.3	.0	.0	.0	2.2
1-2	.2	.9	2.2	.0	.0	.0	3.2	.1	2.3	1.8	.0	.0	.0	4.2
3-4	.0	1.5	3.2	.2	.0	.0	4.9	.0	.5	2.0	.9	.0	.0	3.4
5-6	.0	.0	.5	.7	.0	.0	1.2	.0	.0	1.2	.5	.0	.0	1.7
7	.0	.0	.5	.2	.2	.0	.9	.0	.0	.0	.6	.1	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.4	7.2	1.1	.2	.0	15.1	.4	4.4	3.4	2.6	.1	.0	12.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	1.9	.4	.0	.0	.0	3.2	.3	1.5	.0	.0	.0	.0	1.8
1-2	.2	1.0	1.1	.0	.0	.0	2.3	.0	1.5	1.5	.0	.0	.0	3.0
3-4	.0	.2	.5	1.2	.0	.0	1.9	.0	.1	2.0	.4	.0	.0	2.4
5-6	.0	.2	.4	1.0	.2	.0	1.8	.0	.0	1.4	.9	.0	.0	1.7
7	.0	.2	.0	.9	.7	.2	2.1	.0	.1	1.0	.1	.0	.0	1.2
8-9	.0	.0	.0	.9	.0	.2	1.1	.0	.0	.5	.6	.0	.1	1.1
10-11	.0	.0	.2	.2	.9	.2	1.7	.0	.0	.0	.0	.0	.0	.0
12	.0	.2	.0	.5	.5	.0	1.2	.0	.0	.0	.2	.2	.0	.5
13-16	.0	.0	.2	.4	.5	.5	1.4	.0	.0	.0	1.5	.3	.0	1.6
17-19	.0	.0	.0	.2	.3	.0	.7	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	3.8	2.9	5.4	3.1	1.2	17.5	.3	3.2	6.3	2.9	.6	.1	13.3

PERIOD: (OVER-ALL) 1963-1976

OCTOBER

TABLE 18 (CONT)

VALDEZ MARINE AREA  
59.7N 146.1W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9	.5	1.7	.0	.0	.0	.0	2.1
1-2	.0	2.9	1.4	.0	.0	.0	4.3	.0	1.0	.9	.0	.0	.0	1.9
3-4	.2	.9	.4	.0	.0	.0	1.5	.0	1.7	1.0	.0	.0	.0	2.6
5-6	.0	.7	1.6	.2	.0	.0	2.5	.0	.6	1.2	.6	.0	.0	2.3
7	.0	.2	.7	.2	.0	.0	1.0	.0	.2	1.6	.3	.0	.0	2.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.3	.2	.0	.0	.6
12	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.4	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	5.6	4.1	.9	.4	.0	11.2	.5	3.1	4.9	1.3	.0	.0	11.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.6	.2	.0	.0	.0	.9	.0	3.0	.1	.0	.0	.0	3.1	
1-2	.0	.5	.0	.0	.0	.0	.5	.0	2.1	.9	.0	.0	.0	3.0	
3-4	.0	.4	1.2	.0	.0	.0	1.6	.0	.2	1.0	.0	.0	.0	1.3	
5-6	.0	.2	.6	.2	.0	.0	1.0	.0	.0	.7	.1	.0	.0	.8	
7	.0	.0	1.3	.2	.0	.0	1.5	.0	.2	.9	.0	.2	.0	1.3	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.7	3.5	.4	.0	.0	5.6	.0	5.8	3.7	.3	.2	.0	10.0	95.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.6	13.2	1.7	.0	.0	.0	21.5	
1-2	.5	12.2	9.8	.0	.0	.0	22.5	
3-4	.2	5.4	11.2	2.7	.0	.0	19.6	
5-6	.0	1.7	7.6	3.4	.2	.0	13.0	
7	.0	1.0	5.9	2.4	1.2	.2	10.8	
8-9	.0	.0	.5	2.4	.0	.2	3.2	
10-11	.0	.0	.7	.7	1.0	.2	2.7	
12	.0	.5	.0	.7	1.0	.0	2.2	
13-16	.0	.0	.2	2.2	.7	.5	3.7	
17-19	.0	.0	.2	.2	.5	.0	1.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.3	34.0	37.9	14.9	4.6	1.2	100.0	409

PERIOD: (OVER-ALL) 1963-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.6	9.2	12.9	8.1	4.6	1.6	.4	.9	.5	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	229	4
6-7	.0	1.4	5.3	4.4	4.6	3.7	2.8	1.1	2.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	145	7
8-9	.0	.2	2.5	1.2	.9	1.6	1.4	.9	1.2	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	59	8
10-11	.0	1.8	.7	.9	1.1	1.1	.7	.5	.5	.7	.4	.0	.2	.0	.0	.0	.0	.0	.0	48	8
12-13	.0	.0	.9	.5	1.1	1.1	.4	.4	.4	.5	.4	.0	.0	.0	.0	.0	.0	.0	.0	31	9
>13	.0	.0	.0	.7	.0	.2	.4	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	9
INDEX	6.9	1.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	46	0
TOTAL	48	77	127	90	69	52	34	22	29	13	6	0	1	0	0	0	0	0	0	568	6
PCT	8.5	13.6	22.4	15.8	12.1	9.2	6.0	3.9	5.1	2.3	1.1	.0	.2	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1961-1976  
(OVER-ALL) 1942-1976

# NOVEMBER

VALDEZ MARINE AREA  
59.7N 145.9W

TABLE 1

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	2.9	3.4	1.5	.0	3.9	.0	.0	9.7	1.5	.0	.0	.0	.0	.0	88.8
NE	15.5	1.8	11.5	.0	11.2	.0	.0	38.8	4.5	.0	2.4	1.2	.0	.0	33.0
E	26.2	1.6	3.8	.9	6.0	.9	.0	37.6	7.8	.0	1.8	.0	.9	.9	51.1
SE	23.1	.0	2.7	.0	3.6	.0	.0	29.4	6.8	1.8	.0	.0	1.8	.0	60.2
S	13.1	.0	2.9	.0	3.8	.0	.0	21.9	2.9	.0	.0	.0	.0	.0	75.2
SW	.0	5.9	8.8	.0	4.4	.0	.0	16.2	10.3	.0	.0	.0	.0	.0	73.5
W	3.4	.0	3.8	.0	5.7	.0	.0	13.3	8.6	.0	.0	.0	.0	.0	78.1
NW	.0	4.9	2.5	.0	.0	.0	.0	7.4	.6	.0	.0	.0	2.5	.0	89.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	13.6	2.0	4.8	.2	5.5	.2	.0	25.2	5.3	.2	.9	.2	.7	.2	67.3
TOT OBS:	496														

TABLE 2

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
0600Z	17.4	4.2	5.6	.0	7.6	.0	.0	32.6	5.6	.7	.7	.0	.0	.0	60.4
0600Z	11.9	.9	5.5	.9	5.5	.0	.0	24.8	6.4	.0	.0	.0	.0	.0	68.8
1201Z	8.7	1.7	1.7	.0	3.5	.9	.0	15.7	4.3	.0	2.8	.0	1.7	.0	75.7
1802Z	15.7	.0	5.6	.0	3.7	.0	.0	24.1	5.6	.0	.9	.9	.9	1.9	65.7
TOT PCT	13.7	1.9	4.6	.2	5.3	.2	.0	24.8	5.5	.2	1.1	.2	.6	.4	67.2
TOT OBS:	476														

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WNO DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21	
N	.2	4.0	5.2	1.2	.8	.0		11.4	15.7		13.6	.0	9.3	.0	11.5	.0	12.0	.0
NE	.7	4.9	7.6	3.9	1.2	.3		18.3	17.1		19.4	62.5	15.0	50.0	17.4	36.3	17.3	50.3
E	.4	4.4	7.9	3.5	5.9	1.1		24.6	24.0		22.1	37.5	28.2	25.0	25.9	43.8	25.0	.0
SE	.0	1.7	5.6	3.4	.9	.5		12.0	20.8		10.9	.0	11.8	25.0	9.9	.0	15.8	25.0
S	.2	3.0	2.7	.5	.9	.2		7.4	15.9		5.8	.0	8.1	.0	6.7	.0	11.0	.0
SW	.3	3.1	3.1	.5	.3	.1		7.4	13.6		8.5	.0	7.8	.0	7.8	.0	5.9	.0
W	.3	2.7	2.1	.3	.3	.0		5.7	12.8		4.0	.0	7.6	.0	5.3	.0	7.4	.0
NW	.5	2.4	4.4	1.1	.5	.0		8.8	15.1		10.7	.0	6.3	.0	10.1	.0	6.6	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.1							4.1	.0		5.1	.0	3.9	.0	5.5	.0	1.0	25.0
TOT OBS	31	121	174	76	49	10	461		17.6		138	2	102	4	109	4	98	4
TOT PCT	6.7	28.2	37.7	16.5	10.6	2.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21	
N	1.0	6.9	2.4	.7	.4	11.4	15.7	13.4	9.0	11.1	11.5		
NE	1.8	6.7	6.0	1.3	.7	18.3	17.1	20.0	16.3	18.8	18.6		
E	1.8	7.2	6.7	6.0	2.9	24.6	24.0	22.3	28.1	26.5	22.1		
SE	.8	4.3	5.0	1.2	.7	12.0	20.8	10.7	12.5	9.5	16.2		
S	1.0	4.5	.9	.7	.4	7.4	15.9	5.7	7.8	6.4	10.5		
SW	1.5	3.9	1.7	.3	.1	7.4	13.6	8.4	7.5	7.5	5.6		
W	1.5	2.7	1.2	.3	.0	8.7	12.8	3.9	7.3	5.1	7.1		
NW	1.4	4.4	2.5	.5	.0	8.8	15.1	10.5	8.0	9.7	6.4		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	4.1					4.1	.0	5.0	3.8	5.3	2.0		
TOT OBS	69	196	122	51	23	461		17.6	140	106	113	102	
TOT PCT	15.0	42.5	26.5	11.1	5.0		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1961-1976  
(OVER-ALL) 1962-1976

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59.7N 145.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0600	5.0	2.1	20.0	32.1	22.1	15.0	3.6	20.2	100.0	140
0609	3.8	3.8	35.8	33.0	12.3	11.3	.0	15.9	100.0	106
1215	5.3	1.8	29.2	41.6	14.2	5.3	2.7	15.7	100.0	113
1821	2.0	2.9	21.6	46.1	15.7	9.8	2.0	18.0	100.0	102
TOT	19	12	121	174	76	49	10	17.6		461
PCT	4.1	2.6	26.2	37.7	16.5	10.6	2.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.1	1.6	3.9	1.6		3.5
NE	2.2	1.2	3.2	11.5		6.4
E	1.0	1.1	6.1	17.2		7.1
SE	.4	.4	3.4	6.3		6.9
S	.7	1.0	2.1	3.0		6.0
SW	.2	.9	2.8	3.2		6.5
W	1.1	.8	1.9	1.3		5.0
NW	3.1	1.5	2.7	2.0		4.3
VAR	.0	.0	.0	.0		.0
CALM	2.0	.8	1.7	.8		3.8
TOT OBS	36	33	99	167	395	5.8
TOT PCT	15.8	9.3	27.9	47.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)  
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.5	.0	.2	.5	1.1	2.3	.0	.0	.3	.0	7.5	
NE	2.7	.6	.6	1.8	4.7	1.8	.6	.3	.4	.0	4.5	
E	3.4	1.1	.3	3.5	6.3	4.3	1.9	.0	.2	.0	4.3	
SE	.8	.1	.6	1.6	3.7	1.3	.3	.0	.0	.0	2.0	
S	.7	.5	.6	.2	1.1	1.0	.3	.0	.0	.0	2.5	
SW	.0	.3	.3	2.1	1.9	1.1	.3	.1	.0	.0	1.1	
W	.0	.0	.0	.4	.9	.7	.0	.2	.0	.0	2.9	
NW	.0	.0	.6	.3	.4	1.7	.6	.3	.0	.3	5.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	1.1	.6	.6	.3	.0	.0	2.8	
TOT OBS	29	9	11	38	73	52	16	4	3	1	117	395
TOT PCT	8.2	2.5	3.1	10.7	21.1	14.6	4.5	1.1	.8	.3	33.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.8	.8	.8	1.1	1.1	1.1	1.1	1.1
= OR >5000	1.9	1.9	1.9	2.2	2.2	2.2	2.2	2.2
= OR >3500	5.2	6.6	6.6	6.6	6.6	6.6	6.6	6.6
= OR >2000	11.5	16.7	20.8	21.4	21.4	21.6	21.9	21.9
= OR >1000	22.3	32.6	40.3	41.4	41.9	42.2	42.5	42.5
= OR >600	28.8	41.6	50.1	51.8	52.6	52.9	53.2	53.4
= OR >300	29.9	43.8	52.9	54.8	55.6	55.9	56.2	56.4
= OR >150	31.0	45.8	55.3	57.3	58.1	58.4	58.6	58.9
= OR >0	31.5	47.4	59.7	62.5	64.7	66.6	66.8	67.1
TOTAL	115	173	218	228	236	243	244	245

TOTAL NUMBER OF OBS: 365

PCT FREQ NM <5/8: 32.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	11.6	4.1	4.9	7.0	4.6	5.9	11.3	13.7	30.2	308

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	.3	.4	.0	.0	.0	.0	.0	.0	.0	.9	
	NO PCP	.0	.2	.4	.0	.0	.1	.2	.0	.0	.0	.9	
	TOT %	.2	.5	.9	.0	.0	.1	.2	.0	.0	.0	1.8	
1/2<1	PCP	.0	.7	.7	.1	.2	.1	.2	.0	.0	.0	1.8	
	NO PCP	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.9	.7	.1	.2	.1	.2	.0	.0	.0	2.0	
1<2	PCP	.7	.9	1.0	.3	.4	.0	.0	.0	.0	.0	3.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.7	.9	1.0	.3	.4	.0	.0	.0	.0	.0	3.3	
2<5	PCP	.0	2.1	4.3	1.9	.0	.2	.0	.2	.0	.0	8.8	
	NO PCP	.3	1.4	1.7	1.4	.8	.8	.0	.7	.0	.0	7.2	
	TOT %	.3	3.6	6.0	3.2	.8	1.0	.0	.9	.0	.0	16.0	
5<10	PCP	.0	2.5	2.2	1.2	.7	.2	.7	.2	.0	.0	7.2	
	NO PCP	2.5	1.2	4.0	3.0	1.2	1.6	.7	2.0	.0	.2	16.4	
	TOT %	2.5	3.7	6.3	4.1	1.9	1.9	.9	2.2	.0	.2	23.7	
10+	PCP	.2	.5	.8	.2	.4	.7	.4	.2	.0	.0	3.5	
	NO PCP	7.3	8.1	9.3	4.2	3.9	3.8	4.1	5.4	.0	3.7	49.8	
	TOT %	7.6	8.6	10.1	4.4	4.3	4.5	4.5	5.6	.0	3.7	53.3	
TOT OBS													456
TOT PCT		11.3	18.1	24.9	12.1	7.5	7.5	5.8	8.7	.0	4.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.2	.3	.9	.0	.0	.1	.2	.0	.0	.0	1.3	
	TOT %	.2	.5	.9	.0	.0	.1	.2	.0	.0	.0	1.7	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.7	.0	.1	.2	.0	.0	.0	.0	.0	.9	
	11-21	.0	.2	.4	.0	.0	.0	.0	.0	.0	.0	.7	
	22+	.0	.0	.2	.0	.0	.1	.2	.0	.0	.0	.4	
	TOT %	.0	.9	.7	.1	.2	.1	.2	.0	.0	.0	2.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0	.2	
	11-21	.5	.6	.4	.0	.2	.0	.0	.0	.0	.0	1.7	
	22+	.2	.3	.6	.2	.0	.0	.0	.0	.0	.0	1.3	
	TOT %	.7	.9	1.0	.3	.4	.0	.0	.0	.0	.0	3.3	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.2	.4	.2	.2	.2	.0	.2	.0	.0	1.5	
	11-21	.0	1.0	1.6	1.4	.4	.3	.0	.7	.0	.0	5.3	
	22+	.3	2.3	4.0	1.6	.2	.3	.0	.0	.0	.0	8.7	
	TOT %	.3	3.5	6.0	3.2	.8	1.0	.0	.9	.0	.2	15.9	
5<10	0-3	.0	.2	.0	.0	.0	.0	.0	.2	.0	.2	.7	
	4-10	1.1	1.1	.8	.9	.4	.9	.4	.7	.0	.0	6.3	
	11-21	1.3	1.1	1.0	1.4	.9	.7	.4	.9	.0	.0	7.6	
	22+	.2	1.1	4.4	1.8	.6	.2	.3	.3	.0	.0	9.0	
	TOT %	2.5	3.7	6.2	4.1	1.9	1.9	.9	2.2	.0	.2	23.6	
10+	0-3	.2	.4	.4	.0	.2	.3	.3	.3	.0	3.7	5.9	
	4-10	2.9	2.7	3.2	.5	2.1	2.0	2.3	1.3	.0	.0	17.0	
	11-21	3.4	4.5	3.9	2.7	1.2	1.9	1.7	2.9	.0	.0	22.3	
	22+	1.2	1.1	2.3	1.2	.8	.3	.2	1.1	.0	.0	8.9	
	TOT %	7.8	8.7	10.0	4.4	4.3	4.5	4.3	5.6	.0	3.7	53.3	
TOT OBS													458
TOT PCT		11.5	18.2	24.8	12.1	7.3	7.4	5.7	8.7	.0	4.1	100.0	

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PERIOD: (PRIMARY) 1961-1976  
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND  
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	180 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	6.4	.9	4.6	13.8	19.3	22.0	4.0	1.8	.9	.0	74.3	23.7	109
06009	11.6	3.5	2.3	8.1	18.6	11.6	4.7	.0	1.2	1.2	62.8	37.2	86
12015	9.1	1.0	2.0	10.1	21.2	12.1	4.0	1.0	.0	.0	60.6	39.4	99
18021	5.1	5.1	2.5	10.1	24.1	11.4	6.3	1.3	1.3	.0	67.1	32.9	79
TOT	30	9	11	40	77	55	18	4	3	1	248	125	373
PCT	8.0	2.4	2.9	10.7	20.6	14.7	4.8	1.1	.8	.3	66.3	33.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	3.4	.7	6.9	17.9	26.2	44.8	145
06009	.9	1.8	4.3	12.7	25.5	54.5	110
12015	2.6	3.4	.0	19.8	13.8	60.3	116
18021	.0	1.9	2.8	13.1	26.2	56.1	107
TOT	9	9	18	77	110	255	478
PCT	1.9	1.9	3.8	16.1	23.0	53.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NM >4/8), BY HOUR

HOUR (GMT)	<150 <50VD	<600 <1	<1000 <5	1000+ ANDS+	NM <5/8 AND 5+	TOTAL OBS
00003	7.5	13.0	43.9	32.7	23.4	107
06009	11.8	18.8	31.8	32.9	35.3	85
12015	9.5	13.7	40.0	28.4	31.6	95
18021	9.1	14.1	32.1	37.2	30.8	78
TOT	31	56	137	119	109	365
PCT	8.5	15.3	37.5	32.6	29.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.0	.0	.0	.4	.0	.0	1	.4
50/54	.0	.0	.0	.0	.0	.0	.9	.0	2	.9
45/49	.0	.0	.0	.9	2.6	3.9	4.7	6.9	44	18.9
40/44	.0	.0	1.3	.4	5.2	6.9	18.5	16.3	113	48.3
35/39	.0	.0	1.3	1.3	2.6	4.3	6.9	7.3	55	23.6
30/34	.0	.0	.0	.0	1.7	.9	.9	2.1	13	5.6
25/29	.0	.0	.0	.0	.0	.0	.9	1.3	5	2.1
TOTAL	0	0	6	6	28	38	76	79	233	100.0
PCT	.0	.0	2.6	2.6	12.0	16.3	32.6	33.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
55/59	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0
50/54	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0
45/49	.3	2.9	5.3	5.5	1.2	2.3	.3	.1	.0	.9
40/44	4.2	10.2	12.3	2.7	4.0	4.4	3.3	4.8	.0	2.6
35/39	5.8	4.1	3.5	.8	1.2	1.5	1.4	2.8	.0	2.6
30/34	1.3	.4	.4	.4	.0	.8	1.0	.9	.0	.4
25/29	.8	.1	.0	.0	.0	.4	.0	.4	.0	.4
TOTAL	12.8	17.7	22.2	9.8	6.3	9.3	6.0	9.0	.0	6.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	55	53	47	40	30	28	28	39.9	140
06009	49	48	46	40	31	23	23	39.3	108
12015	49	48	46	41	30	24	24	39.9	114
18021	52	48	46	40	29	23	23	39.9	103
TOT	55	49	46	40	30	24	23	39.7	465

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	9.5	9.5	20.6	25.4	34.9	31	63		
06009	.0	2.0	13.7	19.6	37.3	27.5	62	51		
12015	.0	3.0	16.4	11.9	32.8	35.8	63	67		
18021	.0	5.3	8.8	15.8	35.1	35.1	84	57		
TOT	0	12	29	40	77	80	82	238		

## NOVEMBER

PERIOD: (PRIMARY) 1961-1976  
(OVER-ALL) 1942-1976

TABLE 17

VALDEZ MARINE AREA  
59.7N 145.9WPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	TOT	M FDG	MD FDG
5	.0	.0	.0	.0	.0	.3	.0	.3	.3	3	.0	.8
3	.0	.0	.0	.0	.0	1.1	1.1	.0	.3	9	.0	2.4
2	.0	.0	.0	.0	.0	.3	.8	.5	.0	6	.0	1.6
1	.0	.0	.0	.0	.0	1.1	1.6	.0	.0	10	.0	2.7
0	.0	.0	.0	.3	.0	.8	1.3	.0	.0	9	.0	2.4
-1	.0	.0	.0	.0	.0	1.1	2.7	.0	.0	14	.0	3.8
-2	.0	.0	.0	.0	.8	5.1	3.2	.0	.0	34	.3	8.9
-3	.0	.0	.0	.0	1.3	4.6	1.9	.0	.0	29	.0	7.8
-4	.0	.0	.0	.3	.3	2.7	.0	.0	.0	14	.0	3.8
-5	.0	.0	.0	.0	1.1	2.7	4.6	1.1	.0	34	.3	9.4
-6	.0	.0	.0	.0	.4	3.2	.0	.0	.0	28	.0	7.3
-7/-8	.0	.0	.0	.0	2.4	6.7	3.8	.3	.0	49	.0	13.2
-9/-10	.0	.0	1.1	2.4	7.8	1.6	.0	.0	.0	48	.0	12.9
-11/-13	.0	.0	1.1	4.8	5.1	.0	.0	.0	.0	41	.0	11.0
-14/-16	.0	.8	2.2	2.7	.0	.3	.0	.0	.0	22	.3	5.6
-17/-19	.0	1.3	1.3	.5	.5	.0	.0	.0	.0	14	.3	3.5
-20/-22	.8	.3	.3	.0	.0	.0	.0	.0	.0	5	.0	1.3
-23/-25	.0	.3	.0	.0	.0	.0	.0	.0	.0	1	.0	.3
TOTAL	3	10	22	55	111	52	3	2		372	4	98.8
PCT	.8	2.7	5.9	14.8	29.8	30.6	14.0	.8	.5	100.0	1.1	98.9

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N										NE									
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10	11-21	22-33	34-47	48+	PCT			
<1	.4	1.1	.0	.0	.0	.0	1.5			.0	.0	.0	.0	.0	.0	.0			.0
1-2	.0	2.7	3.6	.0	.0	.0	9.4			.0	1.3	3.2	.0	.0	.0	.0			4.5
3-4	.0	.7	2.0	.6	.0	.0	3.4			.0	1.4	1.4	.9	.0	.0	.0			3.6
5-6	.0	.0	.5	.3	.0	.0	.8			.0	.0	1.1	1.3	.4	.0	.0			2.7
7	.0	.0	.4	.4	.6	.0	1.4			.0	.4	.4	1.6	.1	.0	.0			2.5
8-9	.0	.0	.0	.0	.0	.0	.0			.0	.0	.4	.3	.4	.0	.0			1.2
10-11	.0	.0	.0	.0	.0	.0	.0			.0	.0	.4	.4	.1	.0	.0			.8
12	.0	.0	.0	.0	.0	.0	.0			.0	.0	.4	.0	.0	.0	.0			.4
13-16	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.1	.0	.0	.0			.1
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			.0
20-22	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			.0
23-25	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			.0
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			.0
33-40	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			.0
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			.0
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			.0
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			.0
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			.0
87+	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			.0
TOT PCT	.4	4.5	6.5	1.3	.6	.0	13.4			.0	3.0	7.1	4.7	.9	.0	19.7			

E										SE									
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT			1-3	4-10	11-21	22-33	34-47	48+	PCT			
<1	.4	.6	.3	.0	.0	.0	1.3			.0	.3	.5	.0	.0	.0	.0			1.0
1-2	.0	2.5	1.4	.0	.0	.0	3.9			.0	1.2	1.1	.0	.0	.0	.0			2.3
3-4	.4	1.5	4.5	1.4	.0	.0	7.7			.0	.1	2.6	.3	.0	.0	.0			3.2
5-6	.0	.0	2.3	1.0	.3	.0	3.7			.0	.1	2.1	.4	.1	.0	.0			2.6
7	.0	.0	.4	1.5	2.0	.0	3.8			.0	.1	.0	.9	.3	.0	.0			1.5
8-9	.0	.0	.6	.6	.0	.0	.6			.0	.0	.4	.4	.4	.0	.0			1.1
10-11	.0	.0	.0	.0	1.0	.0	1.0			.0	.0	.0	.0	.0	.0	.0			.0
12	.0	.0	.0	.4	.0	.0	.4			.0	.0	.0	.0	.0	.0	.0			.0
13-16	.0	.0	.0	.6	.5	.0	1.2			.0	.0	.0	.3	.2	.0	.0			.6
17-19	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			.0
20-22	.0	.0	.0	.0	.4	.0	.4			.0	.0	.0	.0	.0	.0	.0			.0
23-25	.0	.0	.0	.0	.4	.0	.4			.0	.0	.0	.0	.0	.0	.0			.0
26-32	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			.0
33-40	.0	.0	.0	.0	.0	.4	.4			.0	.0	.0	.0	.0	.0	.0			.0
41-48	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			.0
49-60	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			.0
61-70	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			.0
71-86	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			.0
87+	.0	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			.0
TOT PCT	.7	4.6	9.0	5.3	4.5	.4	24.7			.0	2.0	6.6	2.3	1.2	.0	12.4			

PERIOD: (OVER-ALL) 1963-1976

NOVEMBER

TABLE 18 (CONT)

VALDEZ MARINE AREA  
59.7N 143.9W

PCT FREQ OF WIND Speed (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.9	1.1	.0	.0	.0	2.0	.0	.3	.7	.0	.0	.0	1.2
3-4	.0	1.4	.7	.3	.0	.0	2.4	.0	2.3	1.2	.0	.0	.0	3.5
5-6	.0	.6	.6	.0	.7	.0	2.0	.0	.1	.3	.0	.0	.0	.5
7	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.4	.7
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.3	2.5	.5	.7	.3	7.3	.0	2.8	2.7	.1	.4	.1	6.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.4	.0	.0	.0	.0	.4	.0	.4	.4	.0	.0	.0	.7	
1-2	.0	.5	.4	.0	.0	.0	.9	.4	1.3	1.3	.0	.0	.0	2.9	
3-4	.3	.5	1.0	.0	.0	.0	1.8	.1	.2	2.9	.4	.0	.0	3.5	
5-6	.0	.3	.3	.0	.0	.0	.3	.4	.7	.3	1.1	.0	.0	2.6	
7	.0	.0	.5	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.4	.0	1.1	
10-11	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.1	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	1.7	2.2	.3	.3	.0	4.7	.8	2.5	5.9	1.5	.9	.0	11.2	95.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.1	3.3	1.1	.0	.0	.0	9.5	
1-2	.4	10.9	12.7	.0	.0	.0	24.0	
3-4	.7	8.0	16.4	4.0	.0	.0	29.1	
5-6	.4	1.8	8.0	4.0	1.3	.0	13.6	
7	.0	.7	1.8	4.4	3.3	.0	10.2	
8-9	.0	.0	1.8	1.3	1.3	.0	4.7	
10-11	.0	.0	.4	1.3	.4	.0	2.5	
12	.0	.0	.4	.4	.0	.0	.7	
13-16	.0	.0	.0	1.8	.7	.0	2.5	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.4	.0	.4	
23-25	.0	.0	.0	.0	.4	.0	.4	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.4	.4	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.5	24.7	42.5	16.4	9.1	.7	100.0	275

PERIOD: (OVER-ALL) 1953-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.1	6.8	15.0	9.8	4.4	.8	.8	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	144	4
6-7	.0	.5	2.7	4.6	3.5	4.4	.8	.8	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	66	6
8-9	.0	.0	4.4	2.5	2.5	3.0	2.2	1.1	1.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	63	7
10-11	.0	.8	1.6	1.1	1.6	.3	1.1	.3	.8	.3	.0	.3	.0	.8	.0	.0	.0	.0	.0	39	10
12-13	.0	.0	1.9	.8	.5	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	6
>13	.0	.0	.0	.3	.0	1.1	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	7	10
INDEX	5.2	.8	.0	.8	1.1	1.4	.0	.5	.0	.3	.0	.3	.0	.3	.0	.0	.0	.0	.0	39	5
TOTAL	23	33	94	73	30	40	20	9	13	2	2	0	4	0	0	0	0	0	0	367	6
PCT	6.3	9.0	25.6	19.9	13.6	10.9	5.4	2.5	4.1	.5	.3	.3	.0	1.1	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1961-1976  
(OVER-ALL) 1949-1976

DECEMBER

VALDEZ MARINE AREA  
59.7N 146.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	4.4	.0	5.0	.0	10.1	.0	.0	19.5	.0	.0	2.5	.0	.0	.0	78.0
NE	8.8	.0	7.5	.0	6.7	.0	1.7	24.7	6.3	1.7	.0	.0	1.7	3.3	62.3
E	23.0	3.6	12.1	.0	10.6	.0	.0	47.0	10.0	.0	.9	.0	.0	.0	42.1
SE	30.4	3.2	11.0	.0	7.8	.0	.4	45.2	8.5	.0	3.5	.0	.0	.0	42.8
S	12.5	2.2	4.4	.0	4.4	.0	5.1	26.5	10.3	.0	2.2	.0	.0	.0	61.0
SW	14.7	.0	.9	.0	1.7	.0	1.7	19.0	6.9	.9	.0	.0	.0	.0	74.1
W	7.1	.0	.0	.0	6.3	.0	5.4	18.8	8.9	2.7	.0	.0	.0	.0	72.3
NW	.0	4.1	.0	.0	4.1	.0	.0	8.2	12.4	.0	.0	.0	.0	.0	79.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.8	.0	.0	.0	9.5	.0	.0	14.3	4.8	.0	.0	.0	.0	.0	81.0
TOT PCT	15.2	1.8	6.7	.0	7.5	.0	1.3	30.3	7.7	.5	1.3	.0	.3	.5	59.6
TOT OBS:	389														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SNOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
0000	11.8	3.9	4.9	.0	8.8	.0	2.0	29.4	5.9	1.0	2.9	.0	.0	.0	60.8
0600	12.2	.0	8.2	.0	5.1	.0	1.0	25.5	6.1	.0	1.0	.0	.0	.0	67.3
1200	16.1	1.8	8.9	.0	6.3	.0	.9	31.3	10.7	.9	.9	.0	.9	.9	55.4
1800	21.8	1.1	4.6	.0	9.2	.0	1.1	35.6	6.9	.0	1.1	.0	.0	1.1	55.2
TOT PCT TOT OBS:	15.2 399	1.8	6.8	.0	7.3	.0	1.3	30.3	7.5	.5	1.3	.0	.3	.5	59.6

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21	
N	.5	3.1	2.4	2.7	1.3	.3		10.2	19.7	4.8	.0	11.6	.0	12.4	.0	12.6	.0	
NE	.3	3.3	8.2	2.8	.8	.3		19.7	17.3	17.1	.0	10.8	.0	19.8	.0	19.4	.0	
E	.0	4.3	8.0	9.4	2.9	.4		20.8	20.9	21.4	.0	13.2	.0	25.9	.0	20.3	.0	
SE	.0	5.4	6.0	4.8	1.3	.6		18.1	19.3	20.0	.0	18.0	.0	18.8	.0	17.6	.0	
S	.0	3.7	3.9	.8	.2	.5		9.0	17.2	10.8	.0	10.3	.0	6.0	.0	9.4	.0	
SW	.0	3.0	2.3	1.8	.3	.0		7.4	15.8	8.4	.0	7.2	.0	5.0	.0	9.4	.0	
W	.2	2.1	3.0	1.6	.2	.0		7.1	16.1	6.7	.0	11.1	.0	5.5	.0	5.0	.0	
NW	.1	2.6	2.7	.8	.1	.0		6.1	14.4	4.1	.0	9.5	100.0	6.0	.0	3.8	.0	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	5.6							5.6	.0	6.7	.0	8.2	.0	4.6	.0	2.4	.0	
TOT OBS	26	110	144	82	26	8	396		17.3		104	0	97	1	109	0	85	0
TOT PCT	6.6	27.8	36.4	20.7	6.6	2.0		100.0			100.0	.0	100.0	100.0	100.0	.0	100.0	.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-6	7-16	17-27	28-40	41+						00	03	06	09	12	15	21
N	1.2	3.3	3.2	2.2	.3			10.2	19.7	4.8	11.5	12.4	12.6				
NE	1.6	7.3	4.9	1.6	.3			19.7	17.3	17.1	10.7	19.8	19.4				
E	2.0	5.6	7.8	4.6	.8			20.8	20.9	21.4	13.1	25.9	20.3				
SE	1.8	7.0	5.6	2.8	.9			18.1	19.3	20.0	15.8	18.8	17.6				
S	.9	4.7	2.3	.6	.5			9.0	17.2	10.8	10.2	6.0	9.4				
SW	1.9	2.5	1.6	1.5	.8			7.4	15.8	8.4	7.1	5.0	9.4				
W	1.3	2.7	1.3	.8	.0			7.1	16.1	6.7	11.0	5.5	5.0				
NW	.7	3.0	1.8	.6	.0			6.1	14.4	4.1	10.5	6.0	3.8				
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0				
CALM	5.6							5.6	.0	6.7	8.2	4.6	2.4				
TOT OBS	67	143	117	38	11	396			17.3		104	98	109	85			
TOT PCT	16.9	36.1	29.5	14.6	2.8			100.0			100.0	100.0	100.0	100.0			

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-23	34-47				
00003	6.7	1.0	23.1	36.3	21.2	7.7	3.8	18.3	100.0	104
06009	8.2	1.0	33.7	40.8	10.2	3.1	3.1	14.8	100.0	98
12015	4.6	1.8	27.5	33.9	22.9	9.2	0	17.4	100.0	109
18021	2.4	0	27.1	34.1	29.4	5.9	1.2	18.6	100.0	85
TOT	22	4	110	144	82	26	8	17.3		396
PCT	5.6	1.0	27.8	36.4	20.7	6.6	2.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	BY WIND DIRECTION				TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBSCD		
N	3.6	.3	2.6	3.7		4.6
NE	4.6	1.1	2.1	3.3		5.4
E	2.0	.9	3.3	13.4		6.8
SE	.3	.3	3.5	14.5		7.4
S	.7	.2	3.5	4.2		6.6
SW	1.6	1.2	2.4	2.5		5.2
W	1.7	1.7	1.8	1.8		4.3
NW	2.2	.5	1.6	1.1		3.9
VAR	.0	.0	.0	.0		.0
CALM	2.0	.3	1.7	2.6		5.1
TOT OBS	57	20	68	158	303	5.9
TOT PCT	18.8	6.6	22.4	52.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

AND OCCURRENCE OF NH <5/8 IN DIRECTION											
000	130	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.0	.9	1.0	2.6	.9	.3	.0	.0	.0	4.5	
2.1	.0	.4	3.0	2.9	.7	.5	.0	.0	.0	6.6	
2.1	.2	.0	4.8	4.6	1.6	1.4	.0	.0	.0	5.0	
1.8	.4	.7	4.0	5.9	3.1	.7	.0	.0	.0	2.0	
.8	.0	.3	2.7	2.0	.7	.3	.3	.0	.0	1.7	
.2	.4	1.0	.2	.7	.7	.3	.0	.0	.0	3.5	
.2	.2	.0	.3	1.4	.7	.2	.0	.0	.0	3.7	
.3	.0	.0	.1	1.3	.5	.1	.0	.0	.0	3.1	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	1.0	1.3	.7	.0	.0	.3	.0	3.3	
22	4	10	52	69	29	13	2	1	0	101	
7.3	1.3	3.3	17.2	22.8	9.6	4.3	.7	.3	.0	33.3	
										303	
										100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>OR >6500	.3	.3	.3	.3	.3	.3	.3	.3
>OR >5000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
>OR >3500	3.8	5.1	5.1	5.1	5.1	5.1	5.1	5.1
>OR >2000	10.3	14.7	15.1	15.1	15.1	15.1	15.1	15.1
>OR >1000	20.8	32.1	33.7	36.2	37.3	37.3	37.3	37.3
>OR >600	26.3	42.3	46.8	50.3	52.6	53.3	54.3	54.3
>OR >300	28.2	45.2	49.7	53.5	56.1	57.1	58.3	58.3
>OR >150	28.8	46.8	51.3	53.1	57.7	58.7	59.9	59.9
>OR >0	29.3	48.4	53.8	60.6	63.3	64.7	67.0	67.0
TOTAL	92	151	174	189	198	202	209	209

TOTAL NUMBER OF OBS: 312

PCT FREQ NH <5/8: 33.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	TOTAL OBS
9.4	7.0	5.6	5.9	5.0	6.5	5.6	7.9	41.3	5.9

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.5	.0	1.0	.3	.3	.0	.3	.0	.0	.3	2.6	
	NO PCP	.3	.0	.2	.6	.0	.0	.0	.0	.0	.0	1.0	
	TOT %	.8	.0	1.2	.9	.3	.0	.3	.0	.0	.3	3.6	
1/2<1	PCP	.4	.3	.3	.5	.3	.0	.0	.0	.0	.0	1.8	
	NO PCP	.0	.0	.2	.3	.0	.0	.0	.0	.0	.3	.8	
	TOT %	.4	.3	.4	.8	.3	.0	.0	.0	.0	.3	2.6	
1<2	PCP	.0	.5	2.2	2.4	.0	.0	.0	.0	.0	.0	5.1	
	NO PCP	.0	.0	.3	.0	.2	.1	.2	.1	.0	.0	.8	
	TOT %	.0	.5	2.4	2.4	.2	.1	.2	.1	.0	.0	5.9	
2<5	PCP	.3	1.3	3.3	1.3	.6	.1	.4	.0	.0	.3	7.7	
	NO PCP	.0	.5	.2	.1	.0	.1	.2	.3	.0	.0	1.3	
	TOT %	.3	1.8	3.4	1.4	.6	.2	.6	.3	.0	.3	8.9	
5<10	PCP	.5	1.8	2.2	2.7	.8	.8	.4	.3	.0	.0	9.4	
	NO PCP	.5	1.5	1.8	3.2	2.4	1.3	1.0	.6	.0	.3	12.5	
	TOT %	1.0	3.3	4.0	5.9	3.1	2.1	1.4	.9	.0	.3	21.9	
10+	PCP	.4	.1	1.0	1.0	.8	.5	.3	.3	.0	.3	4.6	
	NO PCP	7.4	9.5	8.5	3.7	3.6	4.6	4.4	4.7	.0	4.1	52.6	
	TOT %	7.8	9.6	9.6	6.7	4.4	5.1	4.7	5.0	.0	4.3	57.1	
TOT OBS													392
TOT PCT		10.3	15.6	21.0	18.0	8.9	7.5	7.1	6.2	.0	5.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
	4-10	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.3	
	11-21	.3	.0	.0	.5	.3	.0	.0	.0	.0	.0	1.0	
	22+	.5	.0	1.0	.3	.0	.0	.3	.0	.0	.0	2.0	
	TOT %	.8	.0	1.2	.8	.3	.0	.3	.0	.0	.3	3.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
	4-10	.0	.0	.0	.8	.3	.0	.0	.0	.0	.0	1.0	
	11-21	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.5	
	22+	.0	.3	.4	.1	.0	.0	.0	.0	.0	.0	.8	
	TOT %	.4	.3	.4	.8	.3	.0	.0	.0	.0	.3	2.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.3	.8	.0	.0	.0	.0	.0	.0	.0	1.0	
	11-21	.0	.3	.8	.2	.1	.0	.0	.0	.0	.0	2.0	
	22+	.0	.3	.9	1.7	.0	.0	.2	.1	.0	.0	3.1	
	TOT %	.0	.8	2.4	2.4	.2	.1	.2	.1	.0	.0	6.1	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
	4-10	.0	.5	.4	.3	.0	.1	.4	.0	.0	.0	1.8	
	11-21	.0	1.0	1.7	.1	.4	.1	.2	.3	.0	.0	3.8	
	22+	.3	.3	1.3	1.0	.3	.0	.0	.0	.0	.0	3.1	
	TOT %	.3	1.8	3.4	1.4	.6	.2	.6	.3	.0	.3	8.9	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
	4-10	.3	.4	.6	.9	1.5	.4	.9	.0	.0	.0	5.1	
	11-21	.5	1.8	1.3	1.9	1.2	.4	.9	.1	.0	.0	7.6	
	22+	.3	1.1	2.0	3.1	.4	1.3	.6	.3	.0	.0	8.9	
	TOT %	1.0	3.3	3.9	5.9	3.1	2.1	1.9	.9	.0	.3	21.9	
10+	0-3	.5	.3	.0	.0	.0	.0	.2	.1	.0	4.3	3.3	
	4-10	2.9	2.2	2.3	3.2	2.0	2.5	1.5	2.0	.0	.0	18.6	
	11-21	1.2	5.1	4.3	2.7	1.6	1.7	2.4	2.4	.0	.0	21.4	
	22+	3.2	2.0	2.8	.8	.8	.8	.8	.8	.0	.0	11.7	
	TOT %	7.8	9.5	9.5	6.7	4.4	5.1	4.8	5.0	.0	4.3	57.0	
TOT OBS													393
TOT PCT		10.3	15.6	21.0	18.0	8.6	7.4	7.1	6.2	.0	5.3	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND  
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	1.2	2.5	8.6	14.8	32.1	11.1	2.5	.0	.0	.0	72.8	27.2	81
06009	8.6	1.2	3.7	9.9	21.0	11.1	4.9	1.2	1.2	.0	63.0	37.0	81
12015	9.6	1.2	1.2	16.9	19.3	9.6	4.8	.0	.0	.0	62.7	37.3	83
18021	7.8	1.3	1.3	26.0	14.3	6.5	3.9	1.3	.0	.0	62.3	37.7	77
TOT	22	5	12	34	70	31	13	2	1	0	210	112	322
PCT	6.8	1.6	3.7	16.8	21.7	9.6	4.0	.6	.3	.0	65.2	34.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	6.7	.0	6.7	8.7	20.2	57.7	104
06009	4.0	5.0	4.0	8.9	21.8	56.4	101
12015	1.8	.9	8.0	7.1	22.3	59.8	112
18021	3.4	4.5	5.7	11.4	21.4	53.4	88
TOT	16	10	25	36	87	231	405
PCT	4.0	2.5	6.2	8.9	21.5	57.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	1.3	13.2	36.7	38.0	25.3	79
06009	8.6	21.0	32.1	34.6	33.3	81
12015	10.0	15.0	33.8	31.3	35.0	80
18021	8.3	16.7	44.4	23.6	31.9	72
TOT	22	53	114	100	98	312
PCT	7.1	17.0	36.5	32.1	31.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.0	.0	.5	.0	.0	.0	1	.5
45/49	.0	.0	.0	.5	.0	.5	1.5	1.0	7	3.6
40/44	2.1	.0	.0	.5	4.6	7.7	11.3	21.1	92	47.4
35/39	.0	.5	.5	.5	2.1	3.6	8.8	8.8	48	24.7
30/34	.0	.0	.0	.0	.5	2.1	6.2	7.2	31	16.0
25/29	.0	.0	.0	.0	.0	1.5	2.1	1.5	10	5.2
20/24	.0	.0	.0	.0	.5	.0	.0	1.0	3	1.5
15/19	.0	.0	.0	.0	.0	.0	.5	.5	2	1.0
TOTAL	4	1	1	3	16	30	59	80	194	100.0
PCT	2.1	.5	.5	1.5	8.2	15.5	30.4	41.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.5	.0	.0	.0	.0	.0	.0	.0	.0
.0	.5	1.8	.4	.4	.0	.0	.0	.0	.5
3.5	4.6	9.1	10.8	6.2	5.3	3.5	2.3	.0	2.1
1.9	1.7	3.9	4.9	2.6	2.8	2.3	3.1	.0	1.5
1.5	4.4	2.3	.5	.5	.6	3.0	2.6	.0	.5
1.0	2.1	1.0	.0	.5	.1	.4	.0	.0	.0
.5	1.0	.0	.0	.0	.0	.0	.0	.0	.0
.9	.0	.0	.0	.0	.0	.0	.1	.0	.0
9.4	14.8	18.2	16.6	10.2	8.9	9.1	8.1	.0	4.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	48	46	44	39	25	23	23	37.6	105
06009	47	46	44	39	26	18	18	37.5	98
12015	53	47	44	38	28	17	17	37.4	108
18021	46	45	44	38	25	19	19	36.4	84
TOT	53	46	44	39	26	20	17	37.4	395

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.0	5.9	17.6	23.5	51.0	88	51		51
06009	2.0	.0	8.0	14.0	38.0	38.0	85	30		30
12015	5.3	7.0	10.5	10.5	31.6	35.1	79	57		57
18021	.0	.0	9.5	21.4	31.0	38.1	85	42		42
TOT	4	5	17	31	62	81	84	200		200

PERIOD: (PRIMARY) 1961-1976  
(OVER-ALL) 1949-1976

DECEMBER

VALDEZ MARINE AREA  
59.7N 146.1W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	17 20	21 24	23 28	29 32	33 36	37 40	41 44	43 48	49 52	53 56	TOT	N FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	1	.0	.3
7/8	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	2	.0	.6
4	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	4	.0	1.3
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
2	.0	.0	.0	.0	.0	.0	.3	1.9	.0	.0	7	.0	2.2
1	.0	.0	.0	.0	.0	.0	.3	3.2	.0	.0	11	.6	2.9
0	.0	.0	.0	.0	.6	2.3	3.5	.0	.0	.0	21	.0	6.7
-1	.0	.0	.0	.0	.3	3.2	.6	1.0	.0	.0	16	.0	5.1
-2	.0	.0	.0	.0	.0	3.2	1.9	.3	.0	.0	17	.3	5.1
-3	.0	.0	.0	.0	.0	3	5.7	2.2	.0	.0	26	.0	8.3
-4	.0	.0	.0	.3	1.0	2.5	2.9	.0	.0	.0	21	.0	6.7
-5	.0	.0	.0	.0	1.3	2.9	3.8	.0	.0	.0	25	.0	7.9
-6	.0	.0	.0	.0	1.3	3.2	2.5	.0	.0	.0	22	.3	6.7
-7/-8	.0	.0	.0	.0	.6	6.3	2.5	.0	.0	.0	30	.0	9.5
-9/-10	.0	.0	.0	.3	5.1	2.5	1.0	.0	.0	.0	29	.3	9.9
-11/-13	.0	.0	1.0	5.1	4.1	1.6	.6	.0	.0	.0	39	.0	12.4
-14/-16	.0	.0	1.6	2.9	.6	.0	.0	.0	.0	.0	16	.0	5.1
-17/-19	.0	.0	2.2	1.0	.0	.3	.0	.0	.0	.0	11	.0	3.5
-20/-22	1.0	1.0	1.9	.3	.0	.0	.0	.0	.0	.0	13	.0	4.1
-23/-25	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.6
-26/-30	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.3
TOTAL	3	5	21	31	48	109	85	10	1	.3	215	5	310
PCT	1.6	1.6	6.7	9.6	13.2	34.6	27.0	3.2	.0	.3	100.0	1.6	98.4

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.5	.0	.4	.0	.0	.0	.9	.0	.6	.1	.0	.0	.0	.8
1-2	.0	1.4	1.0	.0	.0	.0	2.4	.0	.1	1.0	.0	.0	.0	1.1
3-4	.0	.5	.5	.0	.0	.0	1.0	.0	2.0	1.5	2.0	.0	.0	5.6
5-6	.0	.0	.5	1.5	.5	.0	2.5	.0	.0	4.5	.5	.5	.0	9.6
7	.0	.0	.5	.5	.5	.0	1.0	.0	.5	1.5	.3	.0	.0	2.5
8-9	.0	.0	.0	.0	.5	.0	.5	.0	.0	.1	.6	.0	.0	.8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	1.9	2.9	1.5	1.5	.0	8.3	.0	3.3	9.5	2.7	.5	.0	16.9

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.4	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.3	1.8	.0	.0	.0	2.3	.0	1.6	.3	.0	.0	.0	1.9
3-4	.0	.5	.5	.0	.0	.0	1.0	.0	.6	2.0	.0	.0	.0	4.7
5-6	.0	.5	2.4	1.4	.4	.0	4.7	.0	.0	.9	1.1	.1	.0	2.1
7	.0	.0	1.5	.5	.9	.0	2.9	.0	.0	.5	1.1	.1	.0	1.8
8-9	.0	.0	1.8	.9	.0	.0	2.7	.0	.5	.3	.5	.5	.0	1.8
10-11	.0	.4	.0	1.9	.0	.0	2.3	.0	.1	1.0	.6	1.0	.0	2.8
12	.0	.0	.4	.5	.4	.0	1.3	.0	.0	.0	.5	.6	.0	1.1
13-16	.0	.0	.0	.5	1.0	.9	2.4	.0	.0	.0	.3	.0	.6	1.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.3	8.3	5.7	2.7	.9	19.8	.0	2.9	4.9	6.4	2.4	1.1	17.8

PERIOD: (OVER-ALL) 1963-1976

DECEMBER  
TABLE 18 (CONT)VALDEZ MARINE AREA  
59.7N 146.1W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.3	.0	.0	.0	.0	1.3	.0	1.6	.5	.0	.0	.0	2.1
3-4	.0	1.6	.5	.0	.0	.0	2.1	.0	1.8	.3	.0	.0	.0	2.0
5-6	.0	.0	2.0	.0	.0	.0	2.0	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.5	.4	.0	.0	.9	.0	.0	.5	1.0	.0	.0	1.5
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.5	.5	.0	1.0
10-11	.0	.0	.4	.0	.0	.0	.4	.0	.0	.1	.6	.0	.0	.8
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.9	3.8	.8	.0	.0	7.4	.0	3.4	1.6	2.8	.5	.0	8.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.9	.4	.0	.0	.0	1.3	.0	2.1	.6	.0	.0	.0	2.8	.0
3-4	.0	.4	.8	.0	.0	.0	1.1	.0	1.1	2.0	.5	.0	.0	3.7	.0
5-6	.0	.0	.0	.0	.4	.0	.4	.0	.0	1.0	.0	.1	.0	1.1	.0
7	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.4	.0	.0	.5	.0	.0	.9	.1	.0	.0	.5	.0	.0	.6	.0
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.3	1.1	1.4	.4	.0	4.3	.1	3.3	3.7	1.0	.1	.0	8.2	91.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	9.1	1.0	.5	.0	.0	.0	10.6	
1-2	.0	9.6	5.6	.0	.0	.0	15.2	
3-4	.0	8.6	8.1	4.5	.0	.0	21.2	
5-6	.0	.5	11.6	4.5	2.0	.0	18.7	
7	.0	.5	5.1	4.0	1.5	.0	11.1	
8-9	.5	.5	2.5	3.5	1.5	.0	8.6	
10-11	.0	.5	2.0	3.5	1.0	.0	7.1	
12	.0	.0	.5	1.0	1.0	.0	2.5	
13-16	.0	.0	.0	1.5	1.0	1.5	4.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.5	.0	.5	1.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.6	21.2	35.9	23.2	8.1	2.0	100.0	198

PERIOD: (OVER-ALL) 1952-1976

## TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.1	7.8	9.0	11.4	5.1	1.5	.9	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	128	4
6-7	.0	.9	3.0	4.8	4.8	3.6	4.2	.0	.9	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	77	7
8-9	.0	.9	.9	2.7	2.9	2.1	2.1	1.2	2.4	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	56	8
10-11	.0	.0	.6	1.8	2.1	1.8	1.5	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	8
12-13	.0	.0	2.1	.6	.0	.6	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	6
>13	.0	.0	.0	.3	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	9
INDET	5.7	.6	.3	.6	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	2
TOTAL	26	34	53	74	53	33	30	9	16	2	2	1	0	0	0	0	0	0	0	333	6
PCT	7.8	10.2	15.9	22.2	15.9	9.9	9.0	2.7	4.8	.6	.6	.3	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1960-1977  
(OVER-ALL) 1929-1977

# ANNUAL

TABLE 1

VALDEZ MARINE AREA  
59.7N 146.2W

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	7.5	.6	3.1	.0	3.8	.0	.0	14.5	2.1	.0	2.5	.0	.2	.3	80.4
NE	12.5	1.1	7.5	.0	4.7	.0	.6	24.3	7.0	.1	2.9	.1	.5	.3	64.8
E	20.4	1.6	9.1	.1	5.1	.2	.2	34.6	9.7	.1	3.0	.3	.6	.2	51.4
SE	18.8	1.8	9.3	.0	3.0	.1	.1	31.7	9.3	.3	3.6	.1	.6	.0	54.3
S	10.2	.9	5.0	.0	3.2	.2	.8	19.6	8.4	.0	2.4	.3	.2	.0	69.1
SW	6.3	.8	3.2	.0	2.2	.1	.1	11.8	5.2	.1	2.8	.4	.8	.7	78.2
W	2.5	.7	2.0	.0	2.3	.0	.4	7.5	4.0	.3	3.2	.0	.7	.7	83.8
NW	2.3	1.7	1.8	.0	1.4	.0	.0	6.8	3.3	.2	2.2	.0	1.0	*	86.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.0	.9	4.2	.0	1.0	.0	.0	9.3	1.9	.1	4.5	.2	1.1	.0	83.4
TOT PCT	11.4	1.2	6.0	*	3.4	.1	.2	21.2	6.4	.1	3.1	.2	.6	.3	68.1
TOT OBS:	6583														

TABLE 2

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	11.1	1.6	4.9	.0	3.6	.1	.3	20.3	6.7	.2	3.4	.2	.8	.1	68.3
06009	10.8	1.0	7.0	.1	3.8	.0	.1	21.5	5.0	.1	2.8	.1	.5	.2	70.0
12019	11.2	.9	6.2	.0	2.9	.2	.3	20.7	6.2	.2	3.2	.2	.5	.4	68.7
18021	12.4	1.4	6.2	.1	3.4	.1	.3	22.5	7.4	.0	3.6	.2	.6	.4	69.2
TOT PCT	11.4	1.3	6.0	*	3.4	.1	.2	21.2	6.4	.1	3.2	.2	.6	.3	67.9
TOT OBS:	6793														

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.7	3.3	2.7	.8	.4	*		7.9	12.1		7.6	.0	7.7	22.2	8.0	7.2	8.3	5.4
NE	.7	5.1	5.2	2.0	.5	.1		13.7	14.2		12.3	25.0	11.9	7.8	14.1	22.3	16.0	15.0
E	.8	6.3	7.5	4.8	2.4	.4		22.2	18.8		21.2	27.4	22.1	12.8	23.3	13.4	22.4	17.4
SE	.5	4.7	5.5	2.7	.7	.1		14.3	16.1		15.5	17.8	14.2	6.1	13.6	.0	14.0	15.8
S	.7	4.3	3.1	.6	.2	.1		9.9	12.2		9.3	10.7	9.4	13.3	8.1	12.5	8.6	12.2
SW	.7	4.2	2.6	.7	.2	*		8.5	11.8		10.5	19.0	8.4	.0	6.9	16.1	8.1	10.4
W	.6	4.8	3.1	.6	.2	*		9.4	12.1		8.7	.0	10.1	20.6	9.6	8.9	9.4	7.0
NW	.5	3.2	2.4	.6	.1	*		6.9	11.5		6.6	.0	7.0	17.2	7.4	19.6	6.2	11.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.3							8.3	.0		8.3	.0	9.2	.0	8.9	.0	6.9	5.3
TOT OBS							6651		13.5		1760	17	1556	17	1630	13	1615	43
TOT PCT	13.5	35.9	32.1	12.9	4.8	.8		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12
N	2.2	3.5	1.5	.7	.1		7.9	12.1	7.6	7.8	7.9	8.2	
NE	2.4	6.9	3.2	1.0	.2		13.7	14.2	12.4	12.0	14.2	16.1	
E	2.9	8.2	6.0	4.1	1.0		22.2	18.8	21.2	22.0	23.9	22.3	
SE	2.4	6.3	3.7	1.5	.4		14.3	16.1	15.6	14.2	13.5	14.1	
S	2.2	4.9	1.3	.3	.1		8.9	12.2	9.3	9.4	8.1	8.6	
SW	2.7	4.2	1.2	.4	*		8.5	11.8	10.5	8.4	6.9	8.1	
W	2.8	4.6	1.5	.5	*		9.4	12.1	8.6	10.1	9.6	9.4	
NW	1.8	3.6	1.1	.2	*		6.9	11.5	6.5	7.2	7.5	6.3	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	8.3						8.3	.0	8.3	9.1	8.9	6.9	
TOT OBS						6651		13.5	1777	1573	1643	1638	
TOT PCT	27.7	42.3	19.3	8.7	1.8		100.0		100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000	8.2	4.4	34.6	32.3	13.7	6.0	.8	14.0	100.0	1777
0600	9.1	5.0	37.6	32.8	10.5	4.2	.8	13.0	100.0	1373
1200	8.9	6.7	37.0	31.0	12.0	3.7	.8	12.7	100.0	1643
1800	6.9	5.1	34.8	32.6	14.9	5.0	.7	14.2	100.0	1658
TOT								13.5		6651
PCT	8.3	5.3	35.9	32.1	12.9	4.8	.8	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.9	.9	1.8	2.5		4.8
NE	2.5	1.2	3.3	6.8		6.0
E	1.1	1.0	4.5	15.3		7.0
SE	.5	.5	2.8	10.0		7.2
S	.7	.7	2.4	4.9		6.5
SW	1.2	.9	2.9	3.5		5.9
W	2.3	1.5	2.4	2.9		4.8
NW	2.8	.8	1.5	1.5		4.0
VAR	.0	.0	.0	.0		.0
CALM	2.7	.9	2.1	3.7		4.8
TOT OBS					5317	5.9
TOT PCT	16.6	8.5	23.7	51.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.3	.1	.3	.6	1.3	.9	.2	.0	.1	*	4.3	
NE	1.1	.2	.6	1.7	2.7	1.9	.5	.2	.1	*	4.8	
E	2.5	.5	1.4	3.9	4.8	3.6	.9	.2	.2	.0	3.9	
SE	1.2	.4	.8	2.3	4.0	2.4	.4	.1	.1	*	2.0	
S	.5	.2	.5	1.3	2.3	1.3	.3	.2	.1	.0	2.2	
SW	.4	.2	.3	1.0	1.7	1.4	.5	.1	.1	*	2.9	
W	.4	.1	.3	.7	1.3	1.0	.3	.1	.2	*	4.9	
NW	.2	*	.2	.5	.9	.5	.2	.1	*	*	4.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.4	.1	.3	.8	1.4	1.3	.4	.2	.1	.0	4.2	
TOT OBS												5317
TOT PCT	7.0	1.7	4.7	12.8	20.4	14.4	3.6	1.2	.9	.1	33.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0
>5000	1.8	2.1	2.1	2.1	2.1	2.1	2.1	2.1
>3500	4.7	5.7	5.8	5.8	5.8	5.8	5.8	5.8
>2000	15.0	18.6	19.7	20.0	20.1	20.2	20.2	20.2
>1000	26.7	35.5	38.7	39.9	40.3	40.4	40.5	40.5
>600	33.0	45.9	50.7	52.3	52.9	53.0	53.2	53.3
>300	34.5	49.1	55.0	56.9	57.5	57.7	57.9	57.9
>150	34.9	50.2	56.5	58.5	59.2	59.4	59.6	59.6
>0	35.5	51.8	60.0	62.1	64.7	65.7	66.6	66.6

TOTAL NUMBER OF OBS: 5416

PCT FREQ NM <5/8: 33.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	10.9	4.9	6.0	5.4	5.5	5.8	9.1	9.3	26.8	5770

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.1	.4	.2	*	*	.1	*	.0	*	.9	
	NO PCP	.1	.1	.2	.1	.1	.1	.2	*	.0	.2	1.0	
	TOT %	.1	.1	.7	.3	.1	.1	.2	*	.0	.3	1.9	
1/2<1	PCP	.1	.2	.4	.2	.1	.1	*	.0	.0	*	1.0	
	NO PCP	*	.1	.1	.1	.1	.1	.1	*	.0	*	.7	
	TOT %	.1	.3	.5	.3	.1	.1	.1	*	.0	.1	1.7	
1<2	PCP	.2	.4	1.1	.7	.2	*	*	*	.0	.1	2.7	
	NO PCP	.0	.1	.2	.2	*	*	.1	*	.0	.1	.7	
	TOT %	.2	.5	1.3	.9	.2	.1	.1	*	.0	.2	3.4	
2<5	PCP	.3	1.1	2.3	1.2	.3	.2	.1	.1	.0	.2	5.8	
	NO PCP	.1	.5	1.0	.8	.4	.2	.3	.1	.0	.2	3.7	
	TOT %	.4	1.6	3.4	1.9	.7	.4	.4	.3	.0	.4	9.5	
5<10	PCP	.3	1.1	2.6	1.6	.6	.4	.2	.2	.0	.2	7.3	
	NO PCP	.8	1.6	3.4	2.0	1.3	1.4	1.0	.6	.0	.7	13.1	
	TOT %	1.1	2.8	6.0	3.6	2.1	1.8	1.3	.8	.0	.9	20.4	
10+	PCP	.1	.5	.8	.9	.5	.2	.2	.1	.0	.2	3.6	
	NO PCP	5.7	7.9	9.6	6.4	5.1	5.8	7.2	5.3	.0	6.2	59.4	
	TOT %	5.9	8.4	10.4	7.3	5.6	6.0	7.4	5.6	.0	6.4	63.0	
TOT OBS													6575
TOT PCT		7.9	13.7	22.3	14.2	8.9	8.5	9.5	6.8	.0	8.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	*	.0	*	.0	*	*	.0	.3	.3	
	4-10	.0	*	.1	*	*	.1	.1	*	.0	.0	.4	
	11-21	*	*	.1	.1	*	*	*	*	.0	.0	.5	
	22+	.1	*	.4	.1	.0	*	.1	.0	.0	.0	.7	
	TOT %	.1	.1	.7	.3	.1	.1	.2	*	.0	.3	2.0	
1/2<1	0-3	*	*	.0	*	*	.0	*	*	.0	.1	.2	
	4-10	*	.1	.1	.1	.1	*	*	*	.0	.0	.5	
	11-21	.1	*	.1	*	.1	*	*	.0	.0	.0	.5	
	22+	.0	.1	.4	.1	.0	*	*	.0	.0	.0	.6	
	TOT %	.1	.3	.6	.3	.1	.1	.1	*	.0	.1	1.8	
1<2	0-3	.0	.0	.0	*	*	.0	.0	.0	.0	.2	.2	
	4-10	*	.1	.2	.1	.1	*	.1	*	.0	.0	.6	
	11-21	.1	.2	.5	.2	.1	*	*	*	.0	.0	1.2	
	22+	*	.2	.6	.5	*	*	*	*	.0	.0	1.5	
	TOT %	.2	.5	1.3	.9	.2	.1	.1	*	.0	.2	3.5	
2<5	0-3	*	*	.1	*	*	.0	*	.0	.0	.4	.6	
	4-10	.1	.4	.5	.4	.2	.2	.2	.1	.0	.0	2.1	
	11-21	.2	.6	1.1	.7	.3	.2	.1	.1	.0	.0	3.2	
	22+	.2	.6	1.7	.9	.2	.1	*	*	.0	.0	3.7	
	TOT %	.5	1.6	3.4	1.9	.7	.4	.4	.3	.0	.4	9.5	
5<10	0-3	.1	.1	.1	.1	.1	.1	*	.1	.0	.9	1.6	
	4-10	.6	.9	1.2	.9	.8	.8	.9	.4	.0	.0	6.1	
	11-21	.3	.9	2.0	1.5	.9	.9	.9	.3	.0	.0	7.0	
	22+	.2	.8	2.6	1.1	.3	.3	.2	.1	.0	.0	5.6	
	TOT %	1.1	2.8	6.0	3.6	2.1	1.7	1.3	.8	.0	.9	20.3	
10+	0-3	.6	.5	.6	.3	.6	.6	.3	.4	.0	6.4	10.6	
	4-10	2.5	3.6	4.2	3.1	3.7	3.1	3.9	2.7	.0	.0	28.1	
	11-21	2.0	3.4	3.7	3.0	1.6	1.8	2.5	2.0	.0	.0	19.9	
	22+	.8	1.0	1.8	.9	.3	.4	.6	.6	.0	.0	6.3	
	TOT %	5.9	8.4	10.3	7.3	5.6	6.0	7.4	5.6	.0	6.4	63.0	
TOT OBS													6598
TOT PCT		7.9	13.7	22.2	14.2	8.9	8.3	9.5	6.8	.0	8.2	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND  
OCCURRENCE OF NM <3/8 BY HOUR

HOUR (GMT)	000 149	180 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <3/8 ANY HGT	TOTAL DBS
00603	4.8	1.5	5.3	12.2	22.3	15.2	3.9	1.2	.6	*	66.8	33.2	1509
06609	7.7	1.9	4.9	10.3	18.8	13.9	3.5	1.1	1.0	.2	63.3	36.5	1319
12615	9.3	1.8	4.2	12.6	18.7	12.0	3.2	.9	1.1	.2	63.9	36.1	1378
18621	6.7	1.9	4.0	14.9	19.3	14.9	3.9	1.2	.8	*	67.7	32.3	1350
TOT PCT	7.1	1.7	4.6	12.6	19.8	14.1	3.6	1.1	.8	.1	65.6	34.4	5556 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL DBS
00603	2.5	1.2	4.2	8.8	20.6	62.7	1809
06609	1.7	1.9	3.4	9.2	20.7	63.1	1598
12615	2.5	1.9	3.1	10.4	19.8	62.4	1671
18621	1.8	2.0	3.4	10.4	19.3	62.8	1654
TOT PCT	2.1	1.8	3.6	9.7	20.2	62.7	6772 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL DBS
00603	4.9	12.6	30.7	37.5	31.8	1480
06609	7.8	16.1	31.1	34.1	34.8	1290
12615	9.5	16.4	33.9	32.6	33.5	1342
18621	6.8	14.1	33.1	37.2	29.7	1304
TOT PCT	7.2	14.7	32.2	35.5	32.3	5416 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
70/74	.0	*	*	*	*	*	.0	.0		.1
65/69	.0	.0	*	.1	*	.1	*	*		.3
60/64	.0	*	.0	.1	.3	.8	.8	.2		2.3
55/59	.0	*	.1	.1	.7	2.1	5.4	3.0		11.4
50/54	.0	.0	.1	.2	.8	2.0	6.3	7.0		16.4
45/49	*	*	.1	.3	1.1	2.8	5.2	5.9		15.3
40/44	.2	.1	.2	.4	2.0	4.4	7.3	9.2		23.9
35/39	.0	.2	.3	.6	1.4	3.1	5.4	9.3		20.3
30/34	.0	.0	.2	.2	.6	.9	2.0	2.9		6.7
25/29	.0	.0	.0	.1	.2	.6	.5	.8		2.2
20/24	.0	.0	.0	.0	.1	.1	.1	.3		.6
15/19	.0	.0	.0	.0	.0	.0	.1	.2		.3
TOTAL PCT	.2	.4	.9	2.1	7.3	17.0	33.1	39.0	3899	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	*	.0	*	.0	*	*	.0	.0	.0
.0	*	*	*	*	*	.1	.1	.0	.0
.1	.2	.2	.1	.2	.3	.3	.2	.0	.5
.8	.9	2.5	1.4	1.3	1.4	1.4	.4	.0	1.4
.8	2.0	3.9	2.5	1.5	1.2	1.9	.9	.0	1.7
1.0	1.9	3.5	2.6	1.8	1.4	1.3	.7	.0	1.3
1.7	3.3	5.7	3.8	2.8	2.0	1.6	1.4	.0	1.3
2.0	2.8	4.2	3.2	2.0	1.5	1.3	2.0	.0	1.1
.8	1.7	.8	.4	.2	.6	.9	1.0	.0	.2
.3	.9	.2	.1	.1	.1	.1	.3	.0	.1
.1	.2	*	*	.0	.1	*	.1	.0	.1
.1	*	*	*	.0	.0	.0	.1	.0	.0
7.7	14.1	21.2	14.3	9.9	8.6	9.2	7.1	.0	7.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00603	74	57	53	45	37	33	16	46.0	1761
06609	72	54	50	44	36	32	18	45.0	1351
12615	74	53	49	43	36	31	13	44.6	1627
18621	67	53	50	44	36	31	8	43.3	1666
TOT	74	55	51	44	36	32	8	43.2	6605

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00603	.2	4.8	9.0	22.1	29.2	34.8	83	1009
06609	.2	2.5	6.7	15.7	36.3	38.7	86	900
12615	.4	3.0	7.2	14.4	31.9	43.1	86	976
18621	.0	2.9	6.6	15.9	34.2	40.3	86	1002
TOT	.5	11.6	26.0	66.3	140.3	152.2	85	3977

PERIOD: (PRIMARY) 1960-1977  
(OVER-ALL) 1929-1977

ANNUAL

TABLE 17

VALDEZ MARINE AREA  
59.7N 146.2W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)  
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	NO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	.0	2	.0	*
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	*	10	.0	.1
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1	.1	*	*	16	*	.3
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	*	*	*	*	37	.0	.7
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.3	.1	.1	.2	.1	*	*	*	44	.0	.8
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.4	.3	.2	.3	.3	*	*	*	90	.1	1.6
4	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.2	.3	.3	.3	.1	*	*	*	67	.1	1.1
3	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.8	.4	.6	.5	.2	.0	.0	.0	140	.2	2.5
2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.6	.5	.4	.9	.6	.1	.0	.0	.0	133	.1	2.7
1	.0	.0	.0	.0	.0	.0	.0	.0	.4	1.1	1.0	.9	1.4	.3	.1	.0	.0	.0	190	.2	3.2
0	.0	.0	.0	.0	.0	*	*	*	.8	1.4	.8	1.0	1.4	.5	*	.0	*	*	304	.4	5.1
-1	.0	.0	.0	.0	.0	.0	.0	.1	.4	2.3	1.6	1.1	1.3	1.7	.3	*	.0	.0	323	.4	5.7
-2	.0	.0	.0	.0	.0	.0	.0	.3	1.7	1.5	1.3	1.2	1.7	.6	*	.0	.0	.0	464	.4	8.5
-3	.0	.0	.0	.0	.0	.0	.0	.6	2.6	1.7	1.4	1.3	1.3	.4	.0	.0	.0	.0	448	.3	8.0
-4	.0	.0	.0	.0	.0	.0	.0	1.0	2.5	1.3	1.2	1.2	.7	.2	.0	.0	.0	.0	481	.3	9.0
-5	.0	.0	.0	.0	.0	.0	.0	2.2	1.8	1.1	.9	1.0	.8	.1	.0	.0	.0	.0	411	.2	8.0
-6	.0	.0	.0	.0	.0	.0	.0	2.4	1.7	1.1	.9	.6	.6	.1	.0	.0	.0	.0	344	.2	6.9
-7/-8	.0	.0	.0	.0	.0	.1	.3	1.2	1.6	1.0	.5	.6	.2	*	.0	.0	.0	.0	330	.2	6.4
-9/-10	.0	.0	.0	.0	.0	.1	.8	1.7	2.1	1.3	.4	.5	.2	*	.0	.0	.0	.0	266	.1	5.4
-11/-13	.0	.0	.0	.0	*	.2	.6	1.6	1.2	.8	.3	.2	.1	.0	.0	.0	.0	.0	346	.1	7.1
-14/-16	.0	.0	.0	.0	.5	1.4	1.3	1.0	.2	.1	.1	.0	*	*	.0	.0	.0	.0	241	.2	4.9
-17/-19	.0	.0	.0	.1	.1	.6	.6	.4	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	213	*	4.6
-20/-22	.0	.0	*	.1	.2	.4	.2	.1	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	91	*	1.9
-23/-25	.0	.0	*	.2	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	52	*	1.1
-26/-30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	.0	.8
TOTAL	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.2
PCT	*	.0	*	.3	.7	2.2	4.3	11.2	20.6	15.8	12.6	11.8	13.0	5.4	1.3	.3	.1	.1	100.0	3.3	96.7

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N										NE									
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT					
<1	.4	.9	.2	.0	.0	.0	1.5	.3	1.4	.2	.0	.0	.0	1.8					
1-2	.1	1.3	1.1	.0	.0	.0	2.5	.1	2.1	1.9	.0	.0	.0	4.2					
3-4	*	.4	1.1	.1	.0	.0	1.7	*	1.1	1.6	.6	.0	.0	3.3					
5-6	.0	.1	.3	.4	*	.0	.9	.0	.3	1.1	.3	.1	.0	2.0					
7	.0	.0	.2	.1	.1	.0	.4	.0	.1	.3	.4	*	.0	.9					
8-9	.0	.0	.1	.1	.1	.0	.3	*	.0	.2	.2	*	.0	.5					
10-11	.0	.0	.0	*	*	.0	.1	.0	.0	.1	*	.2	.0	.3					
12	.0	.0	.0	*	*	.0	*	.0	.0	*	.1	.1	.0	.2					
13-16	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	*	.0	*					
17-19	.0	.0	.0	.0	.0	.0	*	.0	*	.0	*	.0	.0	*					
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*					
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
TOT PCT	.6	2.7	3.0	.8	.3	.0	7.4	.5	3.0	3.4	1.9	.3	.0	13.2					

E										SE									
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT					
<1	.4	1.9	.1	.0	.0	.0	2.4	.2	1.3	.1	.0	.0	.0	1.6					
1-2	.1	3.3	2.4	.0	.0	.0	5.8	.1	1.9	1.0	.0	.0	.0	3.0					
3-4	.1	1.1	2.7	1.2	.0	.0	5.1	*	1.0	2.1	.3	.0	.0	3.6					
5-6	.0	.3	1.8	1.3	.3	.0	3.6	*	.3	1.4	.6	.1	.0	2.4					
7	.0	.1	.6	.9	.7	*	2.4	.0	*	.3	.7	.3	*	1.6					
8-9	.0	*	.4	.6	.4	*	1.4	.0	.1	.3	.4	.2	*	.9					
10-11	.0	*	.2	.5	.3	*	1.2	.0	*	.2	.2	.2	.0	.8					
12	.0	*	*	.3	.3	*	.7	.0	.0	.1	.2	.1	*	.3					
13-16	.0	*	*	.2	.2	.2	.7	.0	.0	.1	.2	.1	.1	.5					
17-19	.0	.1	.0	.1	.1	.0	.3	.0	.0	.0	*	*	.0	.1					
20-22	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1	*	.1					
23-25	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	*	*	.0	.1					
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
33-40	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0					
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
TOT PCT	.6	6.9	8.4	5.3	2.4	.3	23.8	.3	4.6	5.8	2.9	.9	.2	14.8					

PERIOD: (OVER-ALL) 1963-1977

ANNUAL  
TABLE 18 (CONT)VALDEZ MARINE AREA  
59.7N 146.2W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
41	.2	1.2	.0	.0	.0	.0	1.4	.1	.9	.0	.0	.0	.0	1.1	
1-2	.1	1.9	.8	.0	.0	.0	2.9	.1	1.4	.6	.0	.0	.0	2.1	
3-4	.1	.9	.9	.1	.0	.0	2.1	.1	1.1	.9	.1	.0	.0	2.2	
5-6	.0	.2	1.0	.0	.1	.0	1.4	.0	.2	.5	.1	.0	.0	.8	
7	.0	.0	.3	.1	.0	.0	.4	.0	.0	.3	.1	.0	.0	.4	
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.1	.0	.0	.3	
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.1	.0	.0	.3	
12	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	4.3	3.2	.4	.2	.0	8.6	.3	3.7	2.5	.7	.2	.0	7.4	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
41	.2	1.0	.1	.0	.0	.0	1.3	.1	.9	.0	.0	.0	.0	1.1	
1-2	.1	2.1	.9	.0	.0	.0	3.0	.1	1.5	1.0	.0	.0	.0	2.6	
3-4	.1	.9	1.3	.1	.0	.0	2.4	.1	.5	1.1	.2	.0	.0	1.8	
5-6	.0	.1	.4	.1	.0	.0	.6	.0	.1	.4	.3	.0	.0	.8	
7	.0	.0	.2	.1	.0	.0	.3	.0	.0	.2	.0	.0	.0	.3	
8-9	.0	.0	.0	.1	.1	.0	.2	.0	.0	.1	.2	.1	.0	.3	
10-11	.0	.0	.1	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	4.1	3.0	.4	.2	.0	8.3	.3	3.0	2.8	.8	.1	.0	7.0	90.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DRS
<1	11.5	9.6	.7	.0	.0	.0	21.7	
1-2	.9	15.4	9.8	.0	.0	.0	26.0	
3-4	.5	7.1	11.7	2.9	.0	.0	22.2	
5-6	.1	1.6	6.8	3.3	.7	.0	12.6	
7	.0	.3	2.6	2.5	1.3	.1	6.8	
8-9	.1	.1	1.3	1.7	.9	.0	4.1	
10-11	.0	.1	.7	1.2	.7	.1	2.8	
12	.0	.0	.3	.7	.4	.0	1.5	
13-16	.0	.0	.1	.7	.3	.3	1.5	
17-19	.0	.1	.0	.2	.1	.0	.4	
20-22	.0	.0	.0	.0	.1	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	13.0	34.3	34.1	13.3	4.7	.3	100.0	3384

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
46	3.4	12.4	13.1	8.0	3.0	1.4	.5	.4	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2277	4
8-7	.1	1.8	5.1	5.2	3.8	3.0	1.8	.7	.7	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	1174	6
8-11	.0	.8	2.4	2.0	2.1	1.8	1.3	.8	.9	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	617	7
10-11	.0	1.1	.9	.9	.9	.8	.7	.4	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	324	7
12-13	.0	.0	1.4	.8	.3	.3	.2	.1	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	181	7
>13	.0	.0	.0	.3	.3	.2	.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	74	10
INDRY	8.2	.9	.3	.5	.3	.2	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	589	1
TOTAL																				3232	5
PCT	11.8	17.0	23.3	17.7	10.7	7.5	4.8	2.6	3.0	.7	.3	.2	.0	.2	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1960-1977  
(OVER-ALL) 1929-1977

TABLE 20

VALDEZ MARINE AREA  
59.7N 146.2W

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
73/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
71/72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
69/70	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	1	.*
67/68	.0	.0	.0	.0	.2	.2	.0	.2	.0	.0	.0	.0	3	.1
65/66	.0	.0	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	3	.1
63/64	.0	.0	.0	.0	.0	.2	.3	1.7	.7	.0	.0	.0	14	.3
61/62	.0	.0	.0	.0	.0	.7	1.9	6.2	1.5	.4	.0	.0	54	1.0
59/60	.0	.0	.0	.3	.2	3.3	10.5	7.9	5.7	1.1	.0	.0	154	2.9
57/58	.0	.0	.0	.0	.2	3.8	12.0	19.5	9.9	.4	.2	.0	237	4.5
55/56	.0	.0	.0	.0	.6	3.8	21.9	30.1	27.8	2.8	.8	.3	452	8.6
53/54	.0	.0	.0	.3	.2	9.2	19.4	22.5	21.4	7.3	.5	.6	417	7.9
51/52	.2	.3	.3	.0	2.5	16.2	19.8	7.7	15.9	16.7	1.8	1.2	427	8.1
49/50	1.1	1.8	.9	.0	6.3	16.2	6.9	3.3	13.7	36.3	19.4	4.6	531	10.1
47/48	3.4	2.4	1.9	2.6	8.8	17.4	6.2	.0	3.3	21.3	19.1	16.7	460	8.7
45/46	12.7	6.1	3.0	6.9	19.2	13.4	.3	.2	.2	10.5	34.8	22.5	544	10.3
43/44	15.0	13.2	14.7	20.7	26.8	10.4	.2	.2	.0	1.6	15.2	18.8	542	10.3
41/42	14.8	21.6	24.1	33.4	19.6	4.2	.2	.2	.0	1.4	5.2	21.6	549	10.4
39/40	39.5	24.8	25.6	24.6	11.5	.9	.2	.0	.0	.0	2.4	10.8	546	10.4
37/38	4.4	23.0	16.3	8.2	2.2	.0	.0	.0	.0	.0	.3	.6	199	3.8
35/36	9.1	6.8	3.8	2.3	1.0	.0	.0	.0	.0	.2	.3	1.9	81	1.5
33/34	9.2	.9	6.9	.7	.2	.0	.0	.0	.0	.0	.0	.0	41	.8
31/32	.0	.9	.3	.0	.6	.0	.0	.0	.0	.0	.0	.2	7	.1
29/30	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.*
27/28	.4	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.1
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	473	379	320	205	511	425	648	481	434	564	382	324	5266	100.0
MEAN	40.9	40.3	40.1	41.5	43.8	49.2	56.2	55.8	54.0	49.5	46.3	44.0	46.6	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1007		1009	1007	1009	1017	1006	1000	1008	543
FEB	1003	1003	1002	1009	1000	1001	1004	1004	1003	471
MAR	1007	996	1006		1008		1006	987	1007	431
APR	1010		1010	1023	1009	1020	1010	1013	1010	453
MAY	1013	1014	1011	1022	1013	1021	1012	1014	1012	684
JUN	1013		1012		1013		1012	1008	1013	589
JUL	1015	1009	1015	1014	1016		1015	1014	1015	860
AUG	1013		1016		1013	1025	1012	1016	1013	611
SEP	1008	1023	1010	1021	1010		1008	1007	1009	532
OCT	1002	1001	1009	1019	1002	1012	1003	1005	1002	648
NOV	999	1004	1001	1001	1004	1002	1001	1000	1001	471
DEC	999		998	999	998		998		998	393
ANN	1007	1009	1008	1012	1008	1014	1007	1006	1008	6656
OBS	1757	17	1775	19	1635	14	1625	44		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	971	975	982	996	1007	1019	1034	1044	1048
FEB	968	971	981	992	1001	1013	1029	1034	1038
MAR	969	973	987	998	1006	1016	1027	1036	1038
APR	981	987	993	1002	1009	1016	1027	1034	1039
MAY	976	986	996	1006	1013	1019	1023	1031	1040
JUN	991	996	1001	1007	1013	1017	1024	1028	1032
JUL	991	999	1005	1011	1015	1019	1026	1031	1035
AUG	982	993	1000	1008	1014	1018	1025	1028	1030
SEP	973	983	990	1002	1010	1017	1025	1030	1038
OCT	964	968	983	995	1003	1011	1021	1026	1032
NOV	982	988	979	991	1001	1010	1024	1032	1035
DEC	960	963	977	991	998	1006	1022	1028	1032

PERIOD: (PRIMARY) 1972-1977  
(OVER-ALL) 1968-1977

JANUARY

VALDEZ, AK  
61.1N 146.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIR	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	BLNG DUST	NO SIG WEA
N	2.9	.0	.0	.0	6.1	.0	.0	8.3	.0	.0	.5	.0	.0	2.2	89.0
NE	.3	.0	.0	.0	8.9	.0	.0	8.9	.0	.0	.6	.0	.0	1.2	89.3
E	.7	.2	.0	.0	17.5	.0	.0	18.1	.0	.0	.2	.0	.0	.5	81.2
SE	1.0	.0	.0	.0	11.9	.0	.0	12.7	.0	.0	.6	.0	.0	.0	86.7
S	13.8	.0	.0	.0	23.1	.0	.0	31.9	.0	.0	.0	.0	.0	.0	88.1
SW	13.9	.0	.0	.0	8.2	.0	.0	22.0	.0	.0	.0	.0	.0	.0	78.0
W	2.3	.0	1.3	.0	3.5	.0	.0	9.0	.0	.0	2.3	.0	.0	.0	88.7
NW	2.8	.0	.9	.0	4.8	.0	.0	7.6	.0	.0	1.4	.0	.0	4.8	88.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.3	.2	.6	.4	36.5	.2	.2	42.2	.0	.0	4.9	.0	.0	.0	52.9
TOT PCT	3.9	.1	.3	.1	18.1	.1	.1	20.8	.0	.0	1.7	.0	.0	.8	76.7
TOT OBS: 1967															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIR	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	BLNG DUST	NO SIG WEA
00003	3.8	.1	.1	.0	19.8	.0	.1	22.0	.0	.0	1.4	.0	.0	.8	75.9
06009	15.4	.0	1.9	.0	28.8	1.9	.0	38.5	.0	.0	1.9	.0	.0	.0	59.6
12015	9.5	.0	.7	1.4	17.7	.0	.0	28.6	.0	.0	2.7	.0	.0	.0	68.7
18021	2.4	.1	.2	.0	16.2	.0	.0	17.6	.0	.0	1.7	.0	.0	1.0	76.7
TOT PCT	3.9	.1	.3	.1	18.1	.1	.1	20.8	.0	.0	1.7	.0	.0	.8	76.7
TOT OBS: 1967															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	2.0	2.5	2.6	.8	.0	.0		7.8	10.2		6.8	6.0	9.6	.0	9.3	6.3	8.0	9.5
NE	2.0	7.3	6.9	1.8	.0	.0		18.1	11.2		18.1	19.9	13.9	.0	11.0	15.6	19.8	17.2
E	2.1	13.7	7.9	1.1	.0	.0		24.8	9.7		25.3	19.2	17.8	.0	17.8	17.3	26.7	29.0
SE	1.1	4.7	3.2	.3	.0	.0		9.3	9.6		10.5	9.3	2.9	.0	7.2	6.0	8.1	10.4
S	.9	1.1	.1	.0	.0	.0		2.1	5.0		2.0	2.4	7.2	.0	.0	2.0	2.3	1.5
SW	.8	1.4	.1	.0	.0	.0		2.4	4.9		3.6	2.7	6.3	.0	3.8	2.3	1.3	1.3
W	1.7	2.1	.2	.0	.0	.0		4.1	4.4		3.2	6.1	1.9	.0	4.2	3.1	3.3	4.7
NW	1.6	2.1	1.6	.3	.0	.0		5.7	8.3		5.9	4.0	3.8	.0	.8	5.4	7.3	5.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	25.9							25.9	.0		24.5	30.2	38.3	.0	45.8	42.0	23.3	20.4
TOT OBS	72.6	667	432	82	0	0	1967		7.0		494	298	52	8	59	88	430	486
TOT PCT	36.1	39.0	22.7	4.3	.0	.0		100.0			100.0	100.0	100.0	.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+						00	03	06	09	12	15	18	21
N	3.9	2.1	1.5	.2	.0			7.8	10.2		6.8	6.0	9.6	.0	9.3	6.3	8.0	9.5
NE	6.9	6.9	3.9	.3	.0			18.1	11.2		18.1	19.9	13.9	.0	11.0	15.6	19.8	17.2
E	9.4	11.8	3.5	.1	.0			24.8	9.7		25.3	19.2	17.8	.0	17.8	17.3	26.7	29.0
SE	3.9	3.8	1.6	.0	.0			9.3	9.6		10.1	2.9	6.3	.0	7.2	6.0	8.1	10.4
S	1.6	.5	.0	.0	.0			2.1	5.0		2.2	2.7	7.2	.0	.0	2.0	2.3	1.5
SW	2.0	.4	.0	.0	.0			2.4	4.9		3.3	6.3	2.9	.0	3.8	2.3	1.3	1.3
W	3.7	.4	.0	.0	.0			4.1	4.4		4.3	1.9	3.6	.0	4.2	3.1	3.3	4.7
NW	3.5	1.0	1.2	.0	.0			5.7	8.3		5.2	3.8	3.6	.0	.8	5.4	7.3	5.9
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	25.9							25.9	.0		24.5	30.2	38.3	.0	45.8	42.0	23.3	20.4
TOT OBS	1160	513	223	11	0	1967			7.0		792	52	147	91.6				
TOT PCT	60.8	28.9	11.7	.6	.0			100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

## JANUARY

PERIOD: (PRIMARY) 1972-1977  
(OVER-ALL) 1969-1977VALDEZ, AK  
61.1N 146.3W

TABLE 4

## PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0100Z	26.0	14.6	32.2	22.0	4.9	.0	.0	6.9	100.0	792
0400Z	26.5	15.4	34.6	11.5	1.9	.0	.0	4.7	100.0	52
1701Z	43.5	10.2	36.1	10.2	.0	.0	.0	3.9	100.0	147
1802Z	21.7	10.3	37.2	25.9	4.9	.0	.0	7.7	100.0	916
TOT	493	243	667	432	82	0	0	7.0		1907
PCT	25.9	12.2	35.0	22.7	4.3	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLUD COVER
N	.3	.3	.3	3.4		7.1
NE	2.1	.7	1.9	7.0		6.1
E	3.2	1.0	1.7	10.1		6.1
SE	1.1	.0	.0	5.7		6.7
S	.2	.3	.0	3.1		7.2
SW	.0	.0	.0	2.7		8.0
W	.0	.0	1.1	2.8		7.5
NW	.3	.3	.6	3.2		7.0
VAR	.0	.0	.0	.0		.0
CALM	1.9	.8	2.5	40.8		7.5
TOT OBS	33	12	32	284	363	7.0
TOT PCT	9.1	3.3	8.8	78.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)  
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.3	.0	.2	.3	.7	.0	.6	1.0	.0	.5	.8	
1.7	.3	.0	.1	.6	.8	.3	1.5	.0	1.2	3.3	
3.2	.3	.5	1.3	1.7	1.0	.8	.7	.2	.4	6.6	
.6	.3	.9	.0	1.0	.6	1.1	.5	.1	.3	2.9	
.9	.3	1.3	.0	.2	.0	.3	.3	.0	.0	.5	
.9	.0	.1	.0	.6	.0	.3	.6	.3	.0	.0	
.8	.0	.0	.3	.7	.0	.0	.3	.0	.6	1.6	
.1	.0	1.2	.0	.5	.3	.0	.0	.3	.6	1.4	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10.9	3.9	5.8	4.1	7.4	1.1	2.8	1.7	.8	1.1	6.9	
.67	.18	.34	.22	.48	.14	.22	.23	.6	.17	.92	363
1.8	5.0	9.4	6.1	13.2	2.9	6.1	6.3	1.7	4.7	25.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)								
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0	
= OR >6500	5.0	6.3	6.3	6.3	6.3	6.3	6.3	6.3	
= OR >5000	10.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	
= OR >4500	13.2	18.5	18.7	18.7	18.7	18.7	18.7	18.7	
= OR >4000	14.6	22.0	22.6	22.6	22.6	22.6	22.6	22.6	
= OR >3500	15.2	27.8	35.3	35.8	35.8	35.8	35.8	35.8	
= OR >3000	15.7	30.0	40.8	41.3	41.6	41.9	41.9	41.9	
= OR >2500	16.0	33.1	49.3	50.4	51.0	51.2	51.2	51.2	
= OR >2000	16.0	35.8	54.0	55.4	55.9	56.2	56.2	56.2	
= OR >1500	16.0	36.4	58.4	62.8	71.1	73.6	74.7	74.7	
= OR >1000	16.0	36.4	58.4	62.8	71.1	73.6	74.7	74.7	
TOTAL	58	132	212	228	258	267	271	271	

TOTAL NUMBER OF OBS: 363

PCT FREQ NM &lt;5/8: 25.3

TABLE 7A

## PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
9.4	4.7	7.4	2.2	1.7	2.2	4.7	1.4	30.7	19.7	363

PERIOD: (PRIMARY) 1977-1977  
(OVERALL) 1968-1977

JANUARY

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.3	.4	.4	.1	.1	.0	.1	.0	2.1	3.5	
	NP PCP	.0	.1	.0	.0	.0	.0	.0	.1	.0	.4	.3	
	TOT %	.1	.4	.4	.4	.1	.1	.0	.1	.0	2.5	4.0	
1/2<1	PCP	.2	.3	1.8	.2	*	.1	.1	.1	.0	2.7	5.6	
	NP PCP	.0	.1	.1	.0	.0	.0	.1	.1	.0	.1	.3	
	TOT %	.2	.5	1.8	.2	*	.1	.1	.2	.0	2.7	5.9	
1<2	PCP	.0	.3	.6	.2	*	.1	.0	.0	.0	1.3	2.3	
	NP PCP	.1	*	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	TOT %	.1	.3	.6	.2	*	.1	.0	.0	.0	1.4	2.7	
2<5	PCP	.4	.4	.8	.2	.3	.3	.1	.2	.0	3.8	6.6	
	NP PCP	.1	.1	.1	.1	.0	.0	*	.2	.0	.7	1.3	
	TOT %	.5	.5	1.0	.3	.3	.3	.2	.4	.0	4.5	7.9	
5<10	PCP	*	.2	.8	.1	.2	*	.1	.1	.0	1.1	2.6	
	NP PCP	1.4	1.9	2.4	1.3	.1	.3	.6	1.1	.0	3.4	12.3	
	TOT %	1.4	2.1	3.2	1.3	.4	.3	.8	1.2	.0	4.5	15.1	
10+	PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	NP PCP	5.5	14.3	17.8	6.8	1.3	1.6	3.0	3.8	.0	10.3	64.4	
	TOT %	5.5	14.3	17.8	6.8	1.3	1.6	3.0	3.8	.0	10.3	64.4	
TOT OBS		1967											
TOT PCT		7.8	18.1	24.8	9.3	2.1	2.4	4.1	5.7	.0	25.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.2	*	.1	.0	.1	.0	.0	.0	2.5	3.0	
	4-10	.0	.2	.4	.1	.1	.0	.0	.1	.0	.8		
	11-21	.0	.0	.0	.1	.0	.0	.0	.1	.0	.2		
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	TOT %	.1	.4	.4	.4	.1	.1	.0	.1	.0	2.5	4.0	
1/2<1	0-3	.2	.2	.4	.1	.0	*	.1	.1	.0	2.7	3.8	
	4-10	.0	.3	1.3	.1	*	.1	.1	.1	.0	1.9		
	11-21	.0	.0	.1	.0	.0	.0	.0	.1	.0	.2		
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	TOT %	.2	.5	1.8	.2	*	.1	.1	.2	.0	2.7	5.9	
1<2	0-3	.0	.1	.1	.0	*	*	.0	.0	.0	1.4	1.7	
	4-10	.0	.2	.4	.2	.0	.1	.0	.0	.0	.8		
	11-21	.0	*	.1	.0	.0	.0	.0	.0	.0	.1		
	22+	.1	*	.0	.0	.0	.0	.0	.0	.0	.1		
	TOT %	.1	.3	.6	.2	*	.1	.0	.0	.0	1.4	2.7	
2<5	0-3	.2	.2	*	*	.2	.1	.1	.1	.0	4.5	5.3	
	4-10	.2	.2	.6	.3	.1	.2	.1	.2	.0	2.0		
	11-21	.0	*	.2	.0	.0	.0	.0	.1	.0	.3		
	22+	*	.1	.1	.0	.0	.0	.0	.0	.0	.2		
	TOT %	.5	.5	1.0	.3	.3	.3	.2	.4	.0	4.5	7.9	
5<10	0-3	.5	.4	.3	.1	.3	.1	.2	.2	.0	4.5	6.6	
	4-10	.2	.9	1.9	.9	.1	.2	.5	.3	.0	4.9		
	11-21	.6	.5	.9	.4	.0	*	.1	.5	.0	2.9		
	22+	.1	.3	.1	.1	.0	.0	.0	.2	.0	.7		
	TOT %	1.4	2.1	3.2	1.3	.4	.3	.8	1.2	.0	4.5	15.1	
10+	0-3	1.0	1.0	1.0	.8	.4	.3	1.4	1.2	.0	10.3	17.7	
	4-10	2.0	5.5	9.1	3.0	.9	1.0	1.3	1.5	.0	24.4		
	11-21	2.0	6.4	6.7	2.7	.1	.1	.1	.9	.0	19.0		
	22+	.5	1.5	1.0	.2	.0	.0	.0	.1	.0	3.3		
	TOT %	5.5	14.3	17.8	6.8	1.3	1.6	3.0	3.8	.0	10.3	64.4	
TOT OBS		1967											
TOT PCT		7.8	18.1	24.8	9.3	2.1	2.4	4.1	5.7	.0	25.9	100.0	

PERIOD: (PRIMARY) 1972-1977  
(OVER-ALL) 1969-1977

# JANUARY

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND  
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	21.8	6.4	11.8	5.5	8.2	2.7	6.4	9.1	.0	3.6	79.5	24.5	110
00009	30.8	5.1	7.7	.0	10.3	.0	7.7	10.3	2.6	5.1	79.5	20.5	39
12015	11.9	3.0	8.9	5.9	72.8	4.0	3.0	5.9	5.0	6.9	77.2	22.8	101
18021	16.8	5.3	8.0	8.8	10.6	6.2	8.0	2.7	.0	3.5	69.9	30.1	113
TOT	47	18	34	22	48	14	22	23	6	17	271	92	363
PCT	18.5	5.0	9.4	6.1	13.2	3.9	6.1	6.3	1.7	4.7	76.7	25.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	4.8	7.7	3.2	6.8	11.9	65.7	792
00009	3.8	15.4	3.8	15.4	17.3	44.2	52
12015	2.0	2.0	2.7	18.4	34.7	40.1	147
18021	3.6	4.4	2.3	6.7	14.6	68.4	916
TOT	76	112	52	150	288	1229	1907
PCT	4.0	5.9	2.7	7.9	15.1	64.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NM >4/8), BY HOUR

HOURL (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ ANY HGT	NM <5/8 AND 5+	TOTAL OBS
00003	21.8	41.6	54.5	23.6	21.8	110
00009	30.8	43.6	51.3	28.2	20.5	39
12015	11.9	23.8	42.6	35.6	21.8	101
18021	16.8	31.0	46.9	24.8	28.3	113
TOT	67	122	176	101	80	363
PCT	18.5	33.6	48.5	27.8	23.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FRFQ
35/39	.0	.0	.0	.0	.1	.4	.3	1.3	20	2.1
30/34	.1	.2	.1	1.1	.9	1.1	8.8	18.0	287	30.3
25/29	.1	.1	.5	2.2	1.2	1.2	3.5	9.3	133	14.0
20/24	.1	.6	2.0	.9	.8	2.9	2.4	2.0	101	10.7
15/19	.2	.9	1.4	3.2	2.7	1.5	4.5	1.7	131	15.9
10/14	.0	.1	2.0	.2	4.9	.6	2.7	.9	109	11.5
5/9	.0	.0	.9	5.8	.0	2.8	1.2	.1	103	10.9
0/4	.0	.0	.5	.0	.4	2.0	.0	.6	34	3.6
-1/-4	.0	.0	.0	.0	.2	.0	.0	.3	5	.5
-5/-9	.0	.0	.0	.1	.0	.0	.0	.4	5	.5
TOTAL	5	19	71	122	107	111	222	291	948	100.0
PCT	.5	2.0	7.5	12.9	11.3	11.7	23.4	30.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.3	.1	.5	.3	.2	.2	.0	.2	.0	.3
1.3	2.9	3.8	1.5	.7	.9	1.2	1.1	.0	17.0
.9	2.3	2.8	.6	.5	.5	.6	.9	.0	3.0
.9	2.3	2.9	.9	.0	.1	.9	.6	.0	2.1
1.9	2.4	2.9	2.0	.2	.7	1.2	2.1	.0	2.5
.5	2.1	4.3	.7	.2	.1	.7	1.3	.0	1.6
.8	2.9	3.7	.9	.5	.2	.8	1.1	.0	.0
.2	.9	1.5	.3	.1	.2	.0	.3	.0	.1
.1	.0	.1	.8	.2	.0	.1	.0	.0	.0
.0	.1	.4	.0	.0	.0	.0	.0	.0	.0
6.9	16.0	22.7	7.1	2.6	2.8	5.6	7.6	.0	28.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	41	37	34	18	1	-5	-15	19.0	792
00009	36	35	34	27	4	2	2	23.9	52
12015	39	37	34	27	3	1	-4	23.7	147
18021	41	37	33	17	-1	-8	-17	17.2	916
TOT	41	37	34	18	0	-6	-17	18.6	1907

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.9	23.7	10.7	11.3	26.3	27.7	77	364		
00009	.0	15.4	7.7	13.5	21.2	42.3	83	52		
12015	.0	10.9	10.9	13.6	24.5	40.1	83	147		
18021	1.0	26.3	12.4	11.2	20.8	28.3	73	403		
TOT	5	212	107	111	222	291	78	948		

PERIOD: (PRIMARY) 1971-1977  
(OVERALL) 1968-1977

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VALDEZ, AK  
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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	PRECIPITATION TYPE						HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THUR LTNG	OTHER WEATHER PHENOMENA					
		RAIN SHR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	FOG NO PCPN					FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG NEA		
N	3.6	.0	.0	.0	14.1	.0	.0	17.7	.0	.0	4.5	.0	.0	.0	4.8	73.0	
NE	2.2	.0	.0	.0	17.3	.0	.3	19.4	.0	.0	.4	.0	.0	.0	.0	80.2	
E	2.1	.0	.2	.0	18.5	.0	.0	19.5	.0	.0	.5	.0	.0	.0	.0	80.0	
SE	2.4	.0	.0	.0	14.7	.0	.0	18.5	.0	.0	.1	.0	.0	.0	.0	83.4	
S	10.7	.0	.0	.0	16.7	.0	.0	23.8	.0	.0	3.6	.0	.0	.0	.0	72.6	
SW	7.1	.0	.0	.0	19.4	.0	.0	23.6	.0	.0	4.7	.0	.0	.0	.0	69.7	
W	9.6	.0	.0	.0	21.4	.0	.0	30.0	.0	.0	1.8	.0	.0	.0	.0	68.2	
NW	13.1	.0	.0	.0	11.7	.0	.0	22.7	.0	.0	3.4	.0	.0	.0	.0	73.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	10.5	.1	.7	.0	41.8	.0	.1	49.6	.0	.0	4.5	.0	.0	.0	.0	68.0	
TOT PCT	6.2				23.4			30.1			2.3					67.4	
TOT OBS:	2071																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG NEA			
00003	6.3	.0	.0	.0	23.6	.0	.2	29.9	.0	.0	1.1	.0	.0	.1	68.9			
06007	6.9	.0	.0	.0	27.8	.0	.0	30.6	.0	.0	2.8	.0	.0	.0	66.7			
12015	8.1	.0	.7	.0	22.3	.0	.0	28.4	.0	.0	4.1	.0	.0	1.4	66.2			
18021	5.8	.1	.5	.0	23.6	.0	.0	30.5	.0	.0	3.1	.0	.0	.1	66.3			
TOT PCT	6.2		.3	.0	23.4	.0	.1	30.1	.0	.0	2.3	.0	.0	.2	67.4			
TOT OBS:	2072																	

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL DRS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.9	2.0	.9	.2	.0	.0		4.0	7.9		3.6	3.6	5.9	.0	5.7	5.8	3.7	4.3
NE	2.4	8.9	4.5	.4	.0	.0		16.2	8.6		13.6	15.8	22.6	.0	18.4	25.5	17.3	15.3
E	1.8	15.6	6.7	.2	.0	.0		24.3	8.5		23.0	26.6	30.6	.0	23.2	23.1	23.1	24.9
SE	1.2	3.3	3.7	.0	.0	.0		8.2	9.3		10.5	7.0	2.8	.0	4.8	2.5	7.4	9.2
S	.9	1.2	.1	.0	.0	.0		2.0	5.1		3.7	1.7	.0	.0	1.3	1.9	1.4	1.5
SW	.8	1.8	.0	.0	.0	.0		2.5	4.9		4.4	1.9	1.4	.0	.4	1.4	1.8	2.3
W	1.1	3.2	.3	.0	.0	.0		4.7	5.1		4.8	4.3	1.4	.0	3.5	4.7	5.8	4.2
NW	1.8	2.3	.3	.0	.0	.0		4.6	5.4		3.3	3.0	7.6	.0	3.9	7.7	5.1	4.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	33.4							33.4			33.1	34.0	27.8	.0	38.6	27.5	34.4	33.9
TOT DRS	914	794	349	16	0	0	2072		5.2		547	306	72	0	57	91	450	569
TOT PCT	44.1	38.3	16.8	.8	.0	.0		100.0			100.0	100.0	100.0	.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL DRS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40					00	06	12	18	21
N	2.6	.9	.5	.0	.0		4.0	7.9	3.6	3.9	5.7	4.0	
NE	7.5	7.0	1.5	.0	.0		16.2	8.6	14.4	22.6	22.8	16.2	
E	10.0	13.2	1.1	.0	.0		24.3	8.5	24.3	30.6	23.1	24.1	
SE	3.6	3.8	.8	.0	.0		8.2	9.3	9.3	2.8	3.4	8.4	
S	1.7	.6	.0	.0	.0		2.0	5.1	3.0	.0	1.7	1.4	
SW	2.0	.6	.0	.0	.0		2.5	4.9	3.5	1.4	1.0	2.1	
W	3.8	.9	.0	.0	.0		4.7	5.1	4.7	1.4	4.2	4.9	
NW	3.8	.7	.1	.0	.0		4.6	5.4	3.9	7.6	6.3	4.8	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	33.4						33.4	.0	33.4	27.8	31.8	34.1	
TOT DRS	1415	571	85	1	0	2072		5.2	553	72	148	999	
TOT PCT	68.3	27.6	4.1	.0	.0		100.0		100.0	100.0	100.0	100.0	

## FEBRUARY

PERIOD: (PRIMARY) 1971-1977  
(OVER-ALL) 1969-1977

TABLE 4

VALDEZ, AK  
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## PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT	TOTAL
DIR									FREQ	OBS
0000Z	13.4	10.2	38.3	17.7	.4	.0	.0	5.2	100.0	853
0600Z	27.8	18.1	44.4	9.7	.0	.0	.0	4.9	100.0	72
1200Z	31.8	15.5	37.2	13.5	2.0	.0	.0	5.2	100.0	148
1800Z	34.1	9.8	38.0	17.0	1.0	.0	.0	5.3	100.0	999
TOT	693	291	794	348	16	0	0	5.2		2072
PCT	33.4	10.7	38.3	16.8	.8	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND	0-2	3-4	5-7	8-9	TOTAL	MEAN
DIR					OBS	CLOUD
N	.5	.9	.8	6.8		6.7
NE	2.0	1.7	2.8	9.2		6.3
E	3.7	1.2	6.9	18.4		6.5
SE	.2	.1	1.1	1.8		6.8
S	.2	.0	.2	1.1		6.8
SW	.1	.0	.1	1.4		7.7
W	.0	.0	.8	2.5		7.6
NW	.6	.0	.5	5.1		7.2
VAR	.0	.0	.0	.0		.0
CALM	2.1	1.5	2.1	27.0		7.2
TOT OBS	31	18	44	237	330	6.8
TOT PCT	9.4	5.9	13.3	71.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)  
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3000	5000	6500	8000+	NM	<5/8	TOTAL
149	299	599	999	1999	3999	4999	6499	7999		ANY	HGT	OBS
N	1.1	.0	.0	.5	.8	.0	.0	.2	.8	.8	2.8	
NE	1.2	.3	.6	.2	1.4	.8	1.5	.5	1.7	1.7	6.0	
E	2.3	.3	.3	.5	3.3	1.8	3.9	1.4	2.6	1.4	10.4	
SE	.1	.0	.0	.1	.5	.5	.0	.0	.6	.4	1.1	
S	.0	.0	.0	.0	.6	.0	.0	.0	.0	.2	.7	
SW	.0	.0	.0	.0	.7	.0	.0	.0	.3	.3	.8	
W	.0	.0	.3	.6	.2	.2	.3	.0	.3	.0	1.4	
NW	.1	.3	.6	.3	1.0	.7	.5	.6	.0	.1	2.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	6.6	1.5	3.9	1.5	1.2	2.4	1.5	1.5	3.0	2.4	7.3	
TOT OBS	37	8	19	12	32	21	28	13	29	24	107	330
TOT PCT	11.2	2.4	5.8	3.6	9.7	6.4	8.5	3.9	8.8	7.3	32.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING	VSBY (NM)							
(FEET)	>10	>5	>2	>1	>1/2	>1/4	>3000	>0
>OR >6500	14.8	15.8	15.8	15.8	16.1	16.1	16.1	16.1
>OR >5000	18.8	19.7	19.7	19.7	20.0	20.0	20.0	20.0
>OR >3500	23.6	28.2	28.2	28.2	28.5	28.5	28.5	28.5
>OR >2000	25.2	33.6	34.2	34.5	34.8	34.8	34.8	34.8
>OR >1000	26.4	40.3	43.6	44.2	44.5	44.5	44.5	44.5
>OR >600	26.4	41.8	47.3	47.9	48.2	48.2	48.2	48.2
>OR >300	26.4	43.3	52.1	53.0	53.3	53.3	53.3	53.3
>OR >150	26.7	43.9	54.2	55.5	55.8	55.8	55.8	55.8
>OR >0	26.7	44.2	57.6	60.6	64.2	66.4	67.6	67.6
TOTAL	88	146	190	200	212	219	223	223

TOTAL NUMBER OF OBS: 330

PCT FREQ NM &lt;5/8: 32.4

TABLE 7A

## PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL
										OBS
13.0	4.9	9.1	4.8	.6	3.6	7.6	4.2	41.5	10.6	330

PERIOD: (PRIMARY) 1971-1977  
(OVER-ALL) 1968-1977

FEBRUARY

VALDEZ, AK  
61.1N 146.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.5	.6	.1	.1	.1	.2	.1	.0	3.3	5.1	
	NO PCP	.0	.1	.1	.0	.0	.0	.0	.0	.0	.7	.9	
	TOT %	.2	.6	.6	.1	.1	.1	.2	.1	.0	4.0	6.0	
1/2<1	PCP	.0	.7	.7	.5	.1	.1	.2	.0	.0	5.4	7.8	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.7	.7	.5	.1	.1	.2	.0	.0	5.5	7.9	
1<2	PCP	.1	.3	.9	.1	.0	.0	.1	.1	.0	2.2	3.8	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	TOT %	.1	.3	.9	.1	.0	.0	.1	.1	.0	2.3	3.9	
2<5	PCP	.3	.9	1.2	.4	.1	.3	.6	.4	.0	3.2	7.3	
	NO PCP	.2	.0	.0	.0	.1	.0	.1	.1	.0	.5	1.1	
	TOT %	.5	.9	1.2	.4	.2	.3	.7	.5	.0	3.7	8.4	
5<10	PCP	.2	.6	1.2	.3	.1	.2	.3	.4	.0	2.2	5.4	
	NO PCP	.3	1.2	2.7	.3	.2	.4	.5	.5	.0	3.3	9.7	
	TOT %	.4	1.8	3.9	.6	.3	.5	.8	1.0	.0	5.5	15.1	
10+	PCP	.0	.1	.2	.0	.0	.0	.0	.0	.0	.3	.7	
	NO PCP	2.7	11.7	16.7	6.3	1.3	1.5	2.7	2.9	.0	12.3	38.0	
	TOT %	2.7	11.8	16.9	6.3	1.3	1.5	2.7	2.9	.0	12.6	38.8	
TOT OBS													2071
TOT PCT		4.0	14.2	24.3	8.2	2.6	2.5	4.7	4.6	.0	33.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.2	.0	.0	.0	.0	.1	.1	.0	4.1	4.6	
	4-10	.1	.4	.6	.0	.1	.1	.1	.1	.0		1.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.6	.6	.1	.1	.1	.2	.1	.0	4.1	6.1	
1/2<1	0-3	.0	.3	.0	.1	.0	.0	.0	.0	.0	5.5	6.1	
	4-10	.0	.4	.6	.3	.1	.1	.2	.0	.0		1.6	
	11-21	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.7	.7	.5	.1	.1	.2	.0	.0	5.5	7.9	
1<2	0-3	.0	.1	.1	.0	.0	.0	.0	.0	.0	2.3	2.6	
	4-10	.1	.1	.8	.1	.0	.0	.1	.0	.0		1.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.3	.9	.1	.0	.0	.1	.1	.0	2.3	3.9	
2<5	0-3	.1	.2	.3	.1	.1	.1	.1	.2	.0	3.7	4.9	
	4-10	.3	.6	.9	.3	.1	.2	.4	.2	.0		3.1	
	11-21	.1	.1	.1	.0	.0	.0	.1	.0	.0		.3	
	22+	.1	.0	.0	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.5	.9	1.2	.4	.2	.3	.7	.3	.0	3.7	8.4	
5<10	0-3	.3	.3	.6	.3	.1	.3	.2	.3	.0	5.3	8.3	
	4-10	.1	1.2	2.4	.4	.2	.2	.5	.4	.0		3.3	
	11-21	.0	.2	.7	.1	.0	.0	.1	.0	.0		1.3	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.4	1.8	3.9	.8	.3	.5	.8	1.0	.0	5.5	15.1	
10+	0-3	.4	1.0	.7	.6	.5	.3	.7	.9	.0	12.5	17.7	
	4-10	1.4	6.2	10.4	2.2	.7	1.2	1.9	1.3	.0		15.5	
	11-21	.8	4.2	5.7	3.6	.1	.0	.1	.5	.0		15.0	
	22+	.1	.4	.1	.0	.0	.0	.0	.0	.0		.3	
	TOT %	2.7	11.8	16.9	6.3	1.3	1.5	2.7	2.9	.0	12.5	38.7	
TOT OBS													2072
TOT PCT		4.0	16.2	24.3	8.2	2.0	2.5	4.7	4.6	.0	33.4	100.0	

## FEBRUARY

PERIOD: (PRIMARY) 1971-1977  
(OVER-ALL) 1968-1977

VALDEZ, AK  
A1.1N 146.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND  
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	14.6	2.9	4.9	3.9	8.7	4.9	9.7	3.9	6.8	8.7	68.9	31.1	103															
06009	21.6	0	5.4	2.7	5.4	2.7	13.5	0	10.8	7	64.9	35.1	37															
12015	8.0	1.1	8.0	5.7	9.1	10.2	5.7	2.3	14.8	10.2	75.0	25.0	88															
18021	6.9	3.9	4.9	2.0	12.7	5.9	7.8	6.9	4.9	4.9	60.8	39.2	102															
TOT PCT	77 11.2	8 2.4	19 5.8	12 3.6	32 9.7	71 6.4	28 8.5	13 3.9	29 8.8	24 7.3	223 67.6	107 32.4	330 100.0															

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	9.3	9.1	4.9	6.9	12.8	61.4	853
06009	6.9	2.8	5.4	13.9	33.3	37.5	72
12015	4.1	4.1	2.0	12.8	31.8	45.3	148
18021	7.0	7.7	3.9	8.7	13.2	59.9	1000
TOT PCT	126 6.1	63 7.9	80 3.9	175 8.4	312 19.1	1217 98.7	2073 100.0

TABLE 12

CUMULATIVE PCT FRQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NM >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 3+	NM <5/8 AND 3+	TOTAL OBS
00003	14.6	22.3	30.1	38.8	31.1	103
06009	21.6	27.0	32.4	35.1	32.4	37
12015	8.0	17.0	31.8	48.9	19.3	88
18021	6.9	16.7	25.5	36.3	38.2	102
TOT PCT	37 11.2	65 19.7	97 29.4	133 40.3	100 30.3	330 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FRQ
45/49	0	0	0	1	0	0	0	0	1	0.1
47/44	0	0	0	1	1	3	0	0	4	0.4
35/39	0	0	0	1	4	5	0	0	45	4.8
39/34	0	0	0	1	7	13	7	14	251	27.0
25/29	0	2	1	1	2	1	6	4	191	18.2
20/24	0	0	1	0	2	7	3	6	170	18.3
15/19	0	0	0	3	7	4	1	5	163	17.5
10/14	0	2	1	7	4	0	3	2	100	10.7
5/9	0	0	2	1	0	1	6	3	35	3.8
0/4	0	0	0	1	0	1	1	0	11	1.2
TOTAL PCT	0 0	4 0.4	34 6.0	83 4.9	144 13.5	119 12.8	257 27.6	268 28.8	931	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
45/49	0	0	1	0	0	0	0	0	0	0
47/44	0	1	3	0	0	0	0	0	0	0
35/39	0	1	1	0	0	0	0	0	0	1
39/34	0	2	4	1	5	9	6	1	9	14
25/29	0	7	2	3	1	7	6	5	7	16
20/24	0	6	4	6	2	1	3	2	6	13
15/19	1	2	4	7	7	5	1	2	2	7
10/14	0	6	2	4	2	1	2	3	5	4
5/9	0	0	1	3	2	1	0	0	0	3
0/4	0	0	2	0	0	0	0	0	0	0
TOTAL PCT	4	19	29	29	22	21	44	34	0	26

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00003	74	39	37	27	9	3	-3	25.3	853
06009	39	38	34	21	9	7	7	21.3	72
12015	40	38	35	24	10	6	5	23.4	148
18021	40	36	35	25	6	-3	-8	23.4	1000
TOT	74	39	35	26	8	-1	-8	24.1	2073

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	0	17.3	18.7	11.9	26.1	25.8	77	937		
06009	0	12.3	13.9	19.3	29.2	29.2	80	72		
12015	0	7.4	12.2	12.8	29.1	38.5	86	148		
18021	0	17.1	14.2	13.1	28.1	27.5	78	374		
TOT	0	143	144	119	257	268	79	931		

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SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (SSMO), ALASKA --ETC(U)  
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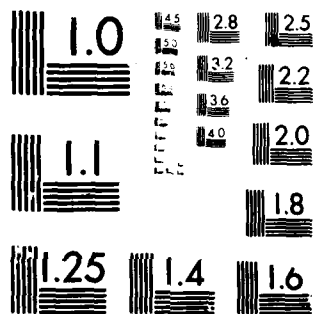
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MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS-1963-A

PERIOD: (PRIMARY) 1971-1977  
(OVER-ALL) 1968-1977

MARCH

VALDEZ, AK  
61.1N 146.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WNO DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIR	PCPN AT NB TIME	PCPN PAST HOUR	THDR LTNG	FOG MO PCPN	FOG MO PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	15.6	.0	.0	15.6	.0	.0	.0	.0	.0	1.3	83.1
NE	.5	.1	.3	.0	15.6	.0	.0	16.1	.0	.0	.3	.0	.0	.0	83.6
E	1.6	.2	.0	.0	15.2	.0	.0	16.2	.0	.0	.6	.0	.0	.0	83.3
SE	.2	.0	.0	.0	9.3	.0	.0	9.3	.0	.0	.8	.0	.0	.4	89.4
S	2.7	.0	.0	.0	4.9	.0	.0	6.4	.0	.0	.0	.0	.0	.0	83.6
SW	3.8	.0	.7	.0	20.4	.0	.0	22.9	.0	.0	2.0	.0	.0	.0	75.1
W	8.8	.0	4.0	.0	27.6	.0	.0	34.8	.0	.0	2.0	.0	.0	.0	63.2
NW	3.2	.8	.6	.0	30.1	.8	.0	33.9	.0	.0	1.3	.0	.0	.8	63.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.3	.0	2.6	.0	42.5	.0	.0	47.7	.0	.0	3.2	.0	.0	.0	49.1
TOT PCT	2.9														
TOT OBS: 2211		.1	1.2	.0	24.7	.0	.0	27.5	.0	.0	1.6	.0	.0	.1	76.7

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT NB TIME	PCPN PAST HOUR	THDR LTNG	FOG MO PCPN	FOG MO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	4.4	.2	1.5	.0	25.4	.0	.0	29.3	.0	.0	.7	.0	.0	.0	70.0
00009	.0	.0	4.3	.0	25.0	.0	.0	29.3	.0	.0	1.1	.0	.0	.0	69.6
12015	.0	.0	.0	.0	22.8	.0	.0	22.8	.0	.0	1.3	.0	.0	1.9	74.7
18021	2.3	.0	.9	.0	24.4	.1	.0	26.6	.0	.0	2.4	.0	.0	.1	70.9
TOT PCT	2.9														
TOT OBS: 2212		.1	1.2	.0	24.7	.0	.0	27.5	.0	.0	1.6	.0	.0	.1	70.8

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-3	4-10	11-21	22-33	34-47						00	03	06	09	12	15
N	1.0	1.6	.8	.1	.0	.0		3.5	7.3		2.2	1.6	4.3	18.2	4.1	8.4
NE	2.6	8.6	3.4	.3	.1	.0		14.9	7.9		8.9	15.1	26.2	27.3	24.6	24.3
E	2.1	9.2	4.7	.4	.0	.0		16.4	8.7		15.0	13.9	11.7	13.6	21.9	15.3
SE	1.7	4.8	3.8	.4	.0	.0		10.7	9.6		13.6	8.7	3.1	4.8	6.1	7.4
S	1.3	1.4	.1	.0	.0	.0		3.0	4.4		3.9	2.3	.0	.0	1.8	2.2
SW	2.6	3.4	.1	.0	.0	.0		8.1	4.3		17.7	6.6	1.3	.0	.4	.2
W	2.6	4.4	.6	.0	.0	.0		7.8	3.2		11.7	10.2	3.4	.0	4.4	6.4
NW	1.9	3.3	.7	.1	.0	.0		6.0	3.9		4.5	8.3	10.3	.0	4.8	8.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0
CALM	29.7							29.7	.0		22.6	33.1	37.0	36.4	29.8	26.7
TOT OBS: 1006		865	313	25	2	0	2211		3.1		367	314	81	11	57	101
TOT PCT	45.5	39.1	14.2	1.1	.1	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	2.4	.6	.4	.0	.0		3.5	7.3	2.0	6.0	7.6	3.9
NE	7.9	5.9	.9	.1	.0		14.9	7.9	11.1	26.4	24.4	13.6
E	7.2	7.8	1.4	.1	.0		16.4	8.7	14.6	12.0	17.7	18.1
SE	4.9	4.0	1.7	.0	.0		10.7	9.6	11.8	3.3	7.0	10.9
S	2.5	.5	.0	.0	.0		3.0	4.4	3.4	.0	2.1	3.0
SW	7.4	.6	.0	.0	.0		8.1	4.3	13.7	1.4	.3	3.1
W	6.3	1.4	.1	.0	.0		7.8	3.2	11.2	4.9	3.7	3.7
NW	4.3	1.4	.2	.0	.0		6.0	3.9	3.9	9.2	7.4	3.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	29.7						29.7	.0	26.3	37.0	27.8	32.0
TOT OBS: 1007		491	106	3	0	2211		3.1	881	92	158	100
TOT PCT	72.7	22.2	4.9	.2	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1971-1977  
(OVER-ALL) 1968-1977

MARCH

VALDEZ, AK  
61.1N 146.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000	26.3	13.3	42.2	14.3	1.8	.0	.0	.0	5.5	100.0	881
0600	17.0	10.3	32.6	13.0	1.1	.0	.0	.0	4.5	100.0	92
1200	27.8	20.3	43.0	8.2	.6	.0	.0	.0	4.5	100.0	158
1800	22.0	15.6	36.6	13.0	.4	.2	.0	.0	3.0	100.0	1080
TOT	656	350	865	313	25	2	0	5.1			2211
PCT	29.7	15.8	39.1	14.2	1.1	.1	.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.2	.0	1.3	4.2	6.7	6.7
NE	3.0	1.1	3.6	18.4	6.7	6.7
E	2.1	.8	1.0	11.7	6.7	6.7
SE	.1	.0	.6	2.1	7.4	7.4
S	.2	.3	.0	.9	6.3	6.3
SW	.1	.3	1.8	.9	6.7	6.7
W	.3	.3	1.8	3.4	6.7	6.7
NW	1.6	.1	.8	4.4	6.2	6.2
VAR	.0	.0	.0	.0	.0	.0
CALM	1.9	.8	2.7	25.2	7.3	7.3
TOT OBS	38	17	30	260	365	6.8
TOT PCT	10.4	4.7	13.7	71.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)  
AND OCCURRENCE OF NM <3/8 BY WIND DIRECTION

	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+ ANY HGT	TOTAL OBS
N	.5	.0	.2	.3	.8	.3	1.2	.8	.3	.0	3.0
NE	5.5	.3	.6	.1	3.0	.6	1.2	2.0	2.3	1.4	9.1
E	3.2	.0	.7	1.0	.3	1.0	1.0	.5	.5	.3	6.8
SE	.4	.0	.3	.1	.0	.3	.1	1.1	.0	.0	.5
S	.2	.0	.0	.0	.2	.3	.2	.0	.0	.0	.5
SW	.4	.1	.0	.0	.1	.1	.3	.3	.3	.0	1.3
W	1.0	.2	.3	.3	1.2	.4	.7	.0	.0	.0	1.9
NW	1.9	.0	.3	.1	.1	.5	.4	.0	.3	.3	2.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.7	.3	1.6	2.2	4.9	1.9	2.3	1.1	.5	1.1	6.8
TOT OBS	76	3	13	40	20	28	21	15	12	120	365
TOT PCT	20.8	.8	4.1	4.1	11.0	5.3	7.7	3.8	4.1	3.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10			VSBY (NM)			= OR >1/2			= OR >1/4			= OR >50YD			= OR >0		
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >1/2	= OR >1/4	= OR >50YD	= OR >1/2	= OR >1/4	= OR >50YD	= OR >1/2	= OR >1/4	= OR >50YD	= OR >1/2	= OR >1/4	= OR >50YD
= OR >6500	6.8	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
= OR >5000	11.8	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
= OR >3500	16.7	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8
= OR >2000	17.8	24.9	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3
= OR >1000	18.1	31.2	36.7	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
= OR >500	18.1	32.9	40.3	40.8	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
= OR >300	18.1	34.2	44.4	44.9	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
= OR >150	18.1	35.1	45.2	45.9	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3
= OR >0	18.1	35.1	45.2	45.9	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3
TOTAL	66	128	195	201	233	242	243	243	243	243	243	243	243	243	243	243	243	243

TOTAL NUMBER OF OBS: 365

PCT FREQ NM <3/8: 32.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	13.2	9.3	5.5	3.0	1.0	1.6	5.2	3.8	33.6	20.8	365

PERIOD: (PRIMARY) 1971-1977  
(OVER-ALL) 1961-1977

MARCH

VALDEZ, AK  
41.1N 146.2W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	0	.2	.3	.1	.0	.1	.2	.1	.0	1.4	2.4	
	NN PCP	.0	0	0	.0	.0	0	.0	0	.0	.2	.4	
	TOT %	0	.2	.3	.1	.0	.1	.2	.1	.0	1.6	2.8	
1/2<1	PCP	.1	.7	.7	.2	.0	.4	.4	.3	.0	2.9	5.7	
	NN PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	TOT %	.1	.7	.7	.2	.0	.4	.4	.3	.0	3.1	5.9	
1<2	PCP	.0	.5	.2	.2	0	.2	.3	.2	.0	2.0	3.7	
	NN PCP	.0	.0	.0	.0	.0	.0	.0	0	.0	.1	.1	
	TOT %	.0	.5	.2	.2	0	.2	.3	.2	.0	2.1	3.8	
2<5	PCP	.3	.6	.9	.5	.1	.5	1.0	.8	.0	4.1	9.0	
	NN PCP	.0	.0	0	.1	.0	.1	.1	0	.0	.4	.9	
	TOT %	.3	.6	.9	.7	.1	.7	1.1	.8	.0	4.5	9.9	
5<10	PCP	.1	.2	.4	0	.0	.5	.8	.6	.0	3.0	5.6	
	NN PCP	.5	1.0	1.3	.6	.4	.5	1.0	.6	.0	3.7	9.9	
	TOT %	.5	1.3	1.7	.6	.4	1.0	1.7	1.1	.0	6.6	15.1	
10+	PCP	0	.1	.2	0	0	0	.1	.0	.0	.6	1.3	
	NN PCP	2.5	11.4	12.3	9.0	2.4	3.6	4.0	3.3	.0	11.0	61.4	
	TOT %	2.5	11.5	12.6	9.0	2.4	3.6	4.2	3.3	.0	11.6	62.7	
TOT OBS													2211
TOT PCT													
		3.5	14.9	16.4	10.7	3.0	8.1	7.8	6.0	.0	29.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	0	.2	.1	.1	.0	.0	.0	.1	.0	1.6	2.2	
	4-10	.0	0	.2	.0	.0	.1	.1	0	.0	.5	.5	
	11-21	.0	.0	.0	.0	.0	.0	.0	0	.0	0	0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	0	.2	.3	.1	.0	.1	.2	.1	.0	1.6	2.6	
1/2<1	0-3	.1	.2	.2	.1	.0	.3	.0	.1	.0	3.1	4.1	
	4-10	0	.5	.4	.1	.0	.1	.2	.2	.0	1.3	1.3	
	11-21	.0	.0	0	.0	.0	.0	.1	.1	.0	.2	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.7	.7	.2	.0	.4	.4	.3	.0	3.1	5.6	
1<2	0-3	.0	.2	.1	.1	0	.1	.2	.1	.0	2.1	2.9	
	4-10	.0	.5	.1	.1	.0	.1	.1	.1	.0	.8	.8	
	11-21	.0	.0	.0	.0	.0	.0	0	.0	.0	0	0	
	22+	.0	.0	.0	.0	.0	.0	.0	0	.0	0	0	
	TOT %	.0	.5	.2	.2	0	.2	.3	.3	.0	2.1	3.8	
2<5	0-3	.2	.1	.2	.2	.1	.2	.4	.3	.0	4.3	6.1	
	4-10	.1	.5	.7	.4	0	.5	.6	.5	.0	3.3	3.3	
	11-21	.0	.0	0	.1	.0	0	.2	.1	.0	.4	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.6	.9	.7	.1	.7	1.1	.9	.0	4.5	9.8	
5<10	0-3	.1	.4	.5	.2	.2	.5	.5	.4	.0	6.6	9.5	
	4-10	.2	.8	.8	.1	.2	.5	1.0	.6	.0	4.3	4.3	
	11-21	.2	.1	.4	.2	.0	0	.2	.1	.0	1.3	1.3	
	22+	.0	.0	0	0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.5	1.3	1.7	.6	.4	1.0	1.7	1.1	.0	6.6	15.1	
10+	0-3	.7	1.3	.9	1.0	1.0	1.3	1.6	.9	.0	11.6	20.7	
	4-10	1.2	6.4	7.0	4.1	1.3	4.1	2.6	1.9	.0	28.7	28.7	
	11-21	.6	3.3	4.3	3.6	.1	.0	.0	.4	.0	12.2	12.2	
	22+	.1	.3	.4	.4	.0	.0	.0	0	.0	1.1	1.1	
	TOT %	2.5	11.3	12.6	9.0	2.4	5.6	4.2	3.3	.0	11.6	62.7	
TOT OBS													2211
TOT PCT													
		3.5	14.9	16.4	10.7	3.0	8.1	7.8	6.0	.0	29.7	100.0	

## MARCH

PERIOD: (PRIMARY) 1971-1977  
(OVER-ALL) 1969-1977VALDEZ, AK  
41.1N 146.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND  
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	18.8	.0	3.6	4.5	9.8	2.7	7.1	1.8	5.4	4.5	58.0	42.0	112
06009	26.7	2.2	2.2	.0	13.3	15.0	6.7	8.9	2.2	4.4	82.2	17.8	45
12015	22.6	1.1	5.4	4.3	14.0	6.5	9.7	9.7	3.2	1.1	77.4	22.6	93
18021	19.1	.9	4.3	5.2	8.7	3.5	7.0	5.2	4.3	3.9	61.7	38.3	115
TOT	76	3	15	15	40	20	28	21	15	12	245	120	345
PCT	20.8	.8	4.1	4.1	11.0	5.5	7.7	5.8	4.1	3.3	67.1	32.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	2.0	5.8	3.3	9.3	14.9	64.3	881
06009	3.3	4.3	4.3	15.2	30.4	42.4	92
12015	1.9	2.5	4.4	12.7	30.4	48.1	158
18021	3.4	6.5	4.0	9.3	11.7	65.1	1081
TOT	61	129	89	217	333	1387	2212
PCT	2.8	5.8	3.8	9.8	15.1	62.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NM >4/8), BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ ANOS+	NM <5/8 AND 5+	TOTAL OBS
00003	18.8	22.3	35.7	25.9	38.4	112
06009	26.7	31.1	40.0	42.2	17.8	45
12015	22.6	29.0	37.6	39.8	22.6	93
18021	19.1	26.1	38.3	25.2	36.5	115
TOT	76	96	137	114	114	345
PCT	20.8	26.3	37.5	31.2	31.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/56	.0	.0	.0	.1	.0	.0	.0	.0	1	.1
45/49	.0	.0	.1	.4	.4	.0	.0	.0	11	1.1
40/46	.0	.1	.0	.4	1.0	.5	.9	.0	34	3.3
35/39	.0	.1	2.0	3.3	7.0	2.1	2.3	4.4	170	16.7
30/34	.0	.2	1.7	5.8	4.8	3.8	7.6	7.7	321	31.0
25/29	.0	.5	1.1	5.2	4.4	4.4	5.7	4.3	283	25.9
20/24	.0	.2	1.5	1.9	1.1	2.3	2.5	.6	99	9.7
15/19	.0	.1	.5	3.3	1.2	1.4	2.1	.3	90	8.8
10/14	.0	.0	.3	.0	1.5	.2	.5	.0	23	2.3
5/9	.0	.0	.0	.2	.0	.3	.0	.0	5	.5
TOTAL	0	12	72	207	178	154	218	176	1017	100.0
PCT	.0	1.2	7.1	20.4	17.5	15.1	21.4	17.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
50	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
45	.0	.1	.1	.0	.3	.3	.2	.0	.0	.0
40	.0	.4	.1	.2	.3	1.1	.4	.0	.0	.0
35	.4	2.0	2.0	2.1	.7	1.3	1.2	.9	.0	6.2
30	1.2	3.4	3.7	1.4	.4	2.2	2.7	2.3	.0	10.3
25	1.6	7.2	4.6	.9	.2	.5	2.1	1.6	.0	7.3
20	.8	2.0	2.5	.7	.2	.1	.6	.9	.0	2.0
15	1.0	1.7	2.8	1.4	.2	.0	.6	.9	.0	.3
10	.2	.6	.8	.0	.0	.0	.0	.4	.0	.3
5	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0
TOTAL	5.0	19.7	18.7	6.7	2.4	5.6	7.6	7.0	.0	27.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00003	78	44	41	33	14	4	1	31.0	881
06009	38	37	35	29	13	7	7	27.5	92
12015	35	34	34	27	13	10	7	25.7	158
18021	46	42	39	30	10	2	-11	28.1	1081
TOT	78	43	40	31	13	3	-11	29.1	2212

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	33.6	19.1	13.1	15.1	17.1	59	345		
06009	.0	17.4	13.0	14.1	26.1	29.3	79	92		
12015	.0	13.3	13.2	17.7	31.0	22.8	79	158		
18021	.0	32.7	18.0	14.5	22.0	12.8	70	422		
TOT	0	291	178	154	218	176	72	1017		

## APRIL

PERIOD: (PRIMARY) 1971-1977  
(OVER-ALL) 1964-1977VALDEZ, AK  
61.1N 146.3W

TABLE 1

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FG MO PCPN	FG MO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MFA
N	5.1	.0	.0	.0	8.8	1.0	.0	12.2	.0	.0	.0	.0	.0	.0	87.8
NE	5.3	1.6	.8	.0	7.9	.0	.0	14.5	.0	.0	1.6	.0	.0	.0	89.8
E	7.3	.6	.0	.0	13.9	.0	.0	18.6	.0	.0	.4	.0	.0	.0	81.2
SE	9.9	.6	.0	.0	11.7	.0	.0	21.0	.0	.0	1.9	.0	.0	.0	77.1
S	8.1	2.8	.6	.0	15.9	.0	.0	23.6	.0	.0	.6	.0	.0	.0	75.8
SW	12.3	1.7	1.7	.0	12.7	.0	.0	22.8	.0	.0	.5	.0	.0	.0	76.6
W	17.7	4.4	3.7	.0	19.3	.0	.0	38.3	.0	.0	.6	.0	.0	.0	61.1
NW	19.4	5.2	2.7	.0	20.4	.2	.0	38.5	.0	.0	.9	.0	.0	.0	60.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.5	1.4	1.7	.0	10.6	.4	.4	40.8	.0	.0	2.7	.0	.0	.0	56.3
TOT PCT OBS:	11.3 1980	2.1	1.6	.0	18.3	.2	.1	29.0	.0	.0	1.3	.0	.0	.0	69.7

TABLE 2

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HP	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG MFA SEA
00003	12.8	2.2	1.9	.0	16.8	.0	.1	28.6	.0	.0	.8	.0	.0	.0	70.6
06009	10.8	2.4	2.4	.0	19.3	.0	.0	33.7	.0	.0	1.2	.0	.0	.0	69.1
12015	6.9	.8	1.5	.0	28.5	.0	.0	33.4	.0	.0	3.8	.0	.0	.0	60.8
18021	10.7	2.1	1.3	.0	18.0	.3	.1	28.2	.0	.0	1.3	.0	.0	.0	70.3
TOT PCT	11.3	2.1	1.6	.0	18.3	.2	.1	29.0	.0	.0	1.3	.0	.0	.0	69.7
TOT OBS:	1980														

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							40+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47							00	03	06	09	12	15	18
N	1.3	1.7	.7	.1	.0	.0	.0	.0	3.7	7.5	3.3	3.9	2.8	12.5	5.8	5.1	4.6	2.5
NE	1.7	2.6	1.7	.0	.0	.0	.0	.0	6.2	7.7	3.9	4.2	18.6	15.0	6.7	13.9	7.5	5.7
E	2.0	4.8	1.6	.0	.0	.0	.0	.0	8.4	6.7	7.0	10.3	3.3	5.8	13.4	9.8	11.5	6.1
SE	3.1	4.7	.6	.0	.0	.0	.0	.0	8.4	5.2	7.3	7.7	.5	.8	3.6	3.4	12.4	8.6
S	2.9	3.7	.0	.0	.0	.0	.0	.0	6.2	3.9	7.1	5.0	8.3	.0	3.6	2.4	5.7	7.7
SW	4.9	17.2	.2	.0	.0	.0	.0	.0	21.7	5.0	34.0	23.1	1.9	6.7	3.6	7.1	8.1	28.5
W	3.9	9.8	.4	.1	.0	.0	.0	.0	13.7	5.2	19.4	19.2	11.3	5.8	4.5	4.7	7.5	14.6
NW	2.4	4.1	.4	.2	.0	.0	.0	.0	7.0	5.6	5.7	12.2	16.0	6.7	8.5	9.1	5.7	6.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	24.4								24.4	.0		12.4	48.3	48.7	48.2	44.6	36.9	20.4
TOT OBS	896	967	111	8	0	0	0	1982		4.2		502	231	83	96	76	483	553
TOT PCT	45.2	48.8	5.6	.4	.0	.0	.0			100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40								00	03	06	09	12
N	2.3	1.0	.3	.0	.0	.0	.0	.0	3.7	7.5	3.3	6.3	5.4	3.5		
NE	3.2	2.6	.4	.0	.0	.0	.0	.0	6.2	7.7	4.0	15.4	10.8	6.3		
E	5.0	3.2	.2	.0	.0	.0	.0	.0	8.4	6.7	8.1	4.2	11.3	8.6		
SE	6.3	2.1	.1	.0	.0	.0	.0	.0	8.4	5.2	7.4	.6	4.4	10.3		
S	3.9	.3	.0	.0	.0	.0	.0	.0	6.2	3.9	6.4	2.1	2.9	6.8		
SW	17.8	3.9	.0	.0	.0	.0	.0	.0	21.7	5.0	30.3	3.6	3.6	19.0		
W	10.8	2.8	.1	.0	.0	.0	.0	.0	13.7	5.2	19.3	9.3	4.6	11.3		
NW	9.5	1.2	.3	.0	.0	.0	.0	.0	7.0	5.6	7.7	12.7	8.8	5.9		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	24.4								24.4	.0		12.0	49.8	46.2	38.1	
TOT OBS	1014	341	26	1	0	0	0	1982			4.2	753	83	130	1036	
TOT PCT	51.4	17.2	1.3	.1	.0	.0	.0	100.0			4.2	100.0	100.0	100.0	100.0	

## APRIL

PERIOD: (PRIMARY) 1971-1977  
(COVER-ALL) 1969-1977VALDEZ, AK  
61.1N 146.3W

TABLE 4

## PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			4+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-39	34-47				
0000Z	13.0	17.2	63.0	6.5	.9	.0	.0	5.1	100.0	733
0600Z	45.8	19.3	27.7	6.0	1.2	.0	.0	3.3	100.0	83
1200Z	46.2	23.1	27.3	6.9	1.5	.0	.0	3.2	100.0	130
1800Z	28.1	23.2	43.7	4.7	.8	.0	.0	3.7	100.0	1034
TOT	484	412	967	111	8	0	0	4.2		1982
PCT	24.4	20.8	48.8	5.6	.4	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.4	.7	.7	2.2		6.7
NE	.9	.3	1.2	5.6		6.7
E	2.1	.3	1.7	6.9		6.3
SE	.3	.3	.5	4.0		7.2
S	.0	.3	.7	2.7		7.3
SW	1.5	.0	2.5	6.4		6.7
W	.4	.0	2.8	9.9		7.4
NW	.4	.1	1.7	7.2		7.2
VAR	.0	.0	.0	.0		.0
CALM	1.1	1.1	3.3	29.4		7.4
TOT OBS	76	11	39	274	367	7.1
TOT PCT	1.1	3.0	13.0	74.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)  
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

AND SUBSEQUENCE OF NM (5/8) BY NM DIRECTION											
000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
.3	.0	.0	.0	.0	.0	.0	.3	.0	.7	2.7	
.3	.0	.3	.3	.4	.3	.3	.4	.8	.1	6.6	
1.0	.0	.3	.5	.5	.5	.7	1.0	.4	.0	6.3	
.4	.0	.3	.1	.8	.1	.1	.8	.1	.0	2.1	
.0	.0	1.3	.3	.5	.3	.3	.2	.0	.0	1.0	
.8	.3	1.2	.6	.7	.4	.0	1.2	.3	.3	4.9	
1.4	.3	1.2	1.7	3.0	.9	.8	.5	.3	.2	3.1	
.0	.3	.6	.1	2.6	.9	.7	.3	.3	.6	2.9	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
9.3	1.6	3.3	2.3	4.6	.8	1.9	1.9	.8	1.1	7.1	
30	10	31	22	49	15	17	24	11	11	127	
13.6	2.7	8.4	6.0	13.4	4.1	4.6	6.5	3.0	3.0	34.6	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>4500	4.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0
>5000	10.9	12.5	12.5	12.5	12.5	12.5	12.5	12.5
>3500	13.4	17.2	17.2	17.2	17.2	17.2	17.2	17.2
>2000	15.8	21.3	21.3	21.3	21.3	21.3	21.3	21.3
>1000	19.3	31.3	34.1	34.3	34.6	34.6	34.6	34.6
>400	19.3	34.9	39.8	40.1	40.6	40.6	40.6	40.6
>300	19.6	36.5	47.4	48.3	49.0	49.0	49.0	49.0
>150	19.6	37.3	49.9	51.2	51.8	51.8	51.8	51.8
>0	19.6	37.3	51.0	53.4	62.2	65.4	65.4	65.4
TOTAL	72	137	187	196	232	240	240	240

TOTAL NUMBER OF OBS: 367

PCT FREQ NM &lt;5/8: 34.6

TABLE 7A

## PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
12.3	9.0	9.3	3.3	.8	5.7	8.7	1.1	36.3	13.4	367

PERIOD: (PRIMARY) 1971-1977  
(OVER-ALL) 1968-1977

APRIL

TABLE 8

VALDEZ, AK  
61.1N 146.5W

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.1	.2	.1	.1	.6	.4	.2	.0	1.6	3.2	
	NO PCP	.0	.0	.0	.1	.0	.1	.0	.0	.0	.1	.2	
	TOT %	.1	.1	.2	.1	.1	.6	.4	.2	.0	1.6	3.4	
1/2<1	PCP	.1	.2	.3	.3	.3	.7	.4	.2	.0	2.6	5.2	
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	TOT %	.1	.2	.3	.3	.3	.7	.4	.2	.0	2.7	5.3	
1<2	PCP	.1	.1	.3	.2	.3	.4	.6	.2	.0	1.0	2.9	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	.3	.2	.3	.4	.6	.2	.0	1.0	2.9	
2<5	PCP	.1	.3	.3	.7	.3	1.4	1.5	1.0	.0	2.7	8.3	
	NO PCP	.0	.0	.0	.0	.0	.1	.1	.0	.0	.5	.7	
	TOT %	.1	.3	.3	.7	.3	1.6	1.5	1.0	.0	3.1	9.2	
5<10	PCP	.0	.3	.3	.5	.6	1.5	1.9	1.0	.0	1.9	7.8	
	NO PCP	.0	.5	.4	.5	.4	1.5	1.2	1.0	.0	1.8	7.5	
	TOT %	.0	.8	.7	.9	.8	3.0	3.1	2.0	.0	3.7	15.3	
10+	PCP	.0	.1	.0	.2	.0	.4	.4	.2	.0	.3	1.5	
	NO PCP	2.9	4.8	6.4	6.1	4.3	15.1	7.3	3.3	.0	12.1	62.4	
	TOT %	2.9	4.9	6.4	6.2	4.3	15.5	7.7	3.5	.0	12.4	63.9	
TOT OBS													1982
TOT PCT													
		3.7	6.2	8.4	8.4	6.2	21.7	13.7	7.0	.0	24.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.1	.1	.1	.1	.3	.1	.1	.0	1.6	2.5	
	4-10	.1	.0	.1	.0	.0	.4	.3	.1	.0	.0	.9	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	.2	.1	.1	.6	.4	.2	.0	1.6	3.4	
1/2<1	0-3	.1	.1	.1	.2	.2	.3	.1	.1	.0	2.7	3.8	
	4-10	.0	.2	.2	.1	.1	.4	.3	.1	.0	.0	1.4	
	11-21	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.2	.5	.3	.3	.7	.4	.2	.0	2.7	5.3	
1<2	0-3	.0	.1	.1	.1	.2	.2	.4	.2	.0	1.0	2.1	
	4-10	.1	.0	.1	.1	.1	.2	.2	.1	.0	.0	.8	
	11-21	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	.3	.2	.2	.4	.6	.2	.0	1.0	2.9	
2<5	0-3	.1	.2	.1	.3	.2	.3	.3	.7	.0	3.1	5.7	
	4-10	.1	.1	.3	.3	.3	1.0	.9	.3	.0	.0	3.2	
	11-21	.0	.0	.0	.2	.0	.1	.1	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	TOT %	.1	.3	.4	.7	.3	1.6	1.5	1.0	.0	3.1	9.2	
5<10	0-3	.2	.4	.4	.6	.5	.8	.8	.7	.0	3.7	7.9	
	4-10	.0	.4	.3	.4	.4	2.2	2.1	1.2	.0	.0	6.9	
	11-21	.0	.1	.1	.0	.0	.0	.2	.1	.0	.0	.4	
	22+	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	
	TOT %	.4	.8	.7	.9	.8	3.0	3.1	2.0	.0	3.7	15.3	
10+	0-3	.0	1.0	1.2	1.8	1.4	2.3	1.6	.7	.0	12.4	23.4	
	4-10	1.5	2.1	3.9	3.9	2.9	13.1	6.0	2.3	.0	.0	35.7	
	11-21	.7	1.7	1.3	.5	.0	.2	.1	.3	.0	.0	4.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
	TOT %	2.9	4.9	6.4	6.2	4.3	15.5	7.7	3.3	.0	12.4	63.9	
TOT OBS													1982
TOT PCT													
		3.7	6.2	8.4	8.4	6.2	21.7	13.7	7.0	.0	24.4	100.0	

APRIL

PERIOD: (PRIMARY) 1971-1977  
(OVER-ALL) 1969-1977VALDEZ, AK  
61.1N 146.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND  
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	0/0	1/0	3/0	6/0	10/0	20/0	30/0	50/0	60/0	80/0+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	8.9	1.0	9.9	10.9	8.9	5.0	3.0	3.0	2.0	1.0	55.4	44.6	101
06009	10.4	3.0	3.0	1.5	14.9	4.5	7.5	6.0	1.5	3.0	61.2	38.8	67
12015	10.3	1.1	8.7	6.5	19.6	4.3	6.5	8.7	3.3	6.5	81.5	18.5	92
18021	14.0	3.6	10.3	3.7	11.2	2.8	2.8	6.3	4.7	1.9	63.6	36.4	107
TOT PCT	50 13.6	10 2.7	31 8.4	22 6.0	49 13.4	15 4.1	17 4.6	24 6.3	11 3.0	11 3.0	240 63.4	127 36.6	367 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	2.0	4.2	3.0	9.8	14.6	46.3	733
06009	1.2	8.4	2.4	14.5	21.7	51.8	83
12015	3.8	10.8	3.1	13.8	20.0	48.5	130
18021	4.4	5.1	2.9	7.7	14.8	65.1	1036
TOT PCT	67 3.4	105 3.3	58 2.9	182 9.2	304 15.3	1266 63.9	1982 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<1/2 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	8.9	20.8	35.6	22.8	41.6	101
06009	10.4	22.4	34.3	31.3	34.3	67
12015	10.3	27.2	40.2	49.5	10.3	92
18021	14.0	30.8	36.4	29.0	34.6	107
TOT PCT	30 13.6	94 23.6	135 36.8	115 31.3	117 31.9	367 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/66	.0	.1	.0	.0	.0	.0	.0	.0	1	.1
55/59	.5	.4	.1	.0	.0	.0	.0	.0	8	1.0
50/54	.0	.4	.5	.1	.3	.0	.0	.0	10	1.3
45/49	.0	.0	1.2	1.7	2.0	1.3	.3	.0	49	6.4
40/44	.0	1.2	2.5	2.7	5.2	3.1	3.5	1.4	151	19.6
35/39	.0	.8	2.7	3.4	2.7	3.3	8.2	17.8	302	39.3
30/34	.0	.1	.9	2.3	2.6	2.1	8.2	10.7	207	26.9
25/29	.0	.0	.0	.4	1.2	.9	.8	1.2	34	4.4
20/24	.0	.0	.0	.0	.0	.0	.1	.0	7	.9
TOTAL PCT	4 .5	23 3.0	61 7.9	85 11.1	107 13.9	84 11.4	162 21.1	239 31.1	769	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
55	.1	.3	.2	.0	.2	.2	.2	.0	.0	.0
50	.0	.0	.0	.2	.2	.2	.2	.3	.0	.0
45	.1	.0	.4	.1	.7	2.5	1.9	.4	.0	.4
40	.8	1.0	1.3	1.4	1.5	6.2	2.2	2.4	.0	2.6
35	1.3	2.0	3.3	3.3	2.6	5.0	6.2	3.3	.0	12.1
30	1.4	2.1	2.4	1.2	.8	1.0	2.0	2.0	.0	14.0
25	.7	.7	.7	.1	.0	.1	.4	.3	.0	1.4
20	.0	.0	.1	.0	.1	.0	.0	.0	.0	.7
40-60	4.6	6.1	8.6	6.2	6.0	15.1	13.3	8.9	.0	31.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	60	54	48	39	31	29	26	39.8	733
06009	51	50	41	34	24	27	22	34.7	83
12015	51	41	36	33	23	22	27	32.3	130
18021	57	51	46	37	28	24	21	37.9	1036
TOT	60	52	47	38	29	24	21	37.9	1982

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	1.0	30.8	10.4	10.3	20.0	21.3	70	109		
06009	.0	18.1	12.0	16.9	12.0	41.0	78	83		
12015	.0	10.8	8.3	13.6	31.3	33.4	92	130		
18021	.6	22.2	13.0	10.0	19.9	32.6	75	361		
TOT	4	109	107	88	162	239	75	769		

PERIOD: (PRIMARY) 1971-1977  
(OVER-ALL) 1968-1977

MAY

VALDEZ, AK  
61.1N 146.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FREN PCPN	HAIL	PCPN AT 06 TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW MEA
N	3.9	28.6	.0	.0	3.9	.0	.0	36.4	.0	.0	.0	.0	.0	69.6
NE	14.9	2.9	2.9	.0	5.7	.0	.0	22.9	.0	2.3	.0	.0	.0	77.1
E	35.2	6.6	1.9	.0	7.4	.0	.0	47.4	.0	.0	.0	.0	.0	52.6
SE	30.1	4.4	.9	.0	6.5	.0	.0	39.2	.0	.0	1.7	.0	.0	59.0
S	10.8	3.0	.0	.0	3.0	.0	.0	16.9	.0	.0	.0	.0	.0	83.1
SW	12.8	2.7	.7	.0	1.8	.0	.0	16.9	.0	.0	.2	.0	.0	82.9
W	18.0	4.0	1.5	.0	1.9	.0	.0	24.0	.0	.0	.0	.0	.0	76.0
NW	14.6	6.0	.9	.0	2.9	.0	.0	24.4	.0	.0	.0	.0	.0	79.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.8	3.1	2.1	.0	9.1	.0	.0	42.0	.0	.0	.3	.0	.0	57.7
TOT PCT	18.5	3.8	1.1	.0	3.7	.0	.0	25.7	.0	*	.2	.0	.0	74.1
TOT OBS:	2012													

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FREN PCPN	HAIL	PCPN AT 06 TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW MEA
00003	20.4	4.5	1.1	.0	2.6	.0	.0	27.1	.0	.0	.1	.0	.0	72.8
06009	18.4	3.4	2.3	.0	1.1	.0	.0	29.0	.0	.0	.0	.0	.0	77.0
12015	19.8	3.8	.8	.0	3.8	.0	.0	26.7	.0	.8	.8	.0	.0	72.5
18021	17.2	3.4	1.1	.0	4.6	.0	.0	24.8	.0	.0	.2	.0	.0	75.0
TOT PCT	18.5	3.8	1.1	.0	3.7	.0	.0	25.7	.0	*	.2	.0	.0	74.1
TOT OBS:	2012													

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18
N	.4	.5	.0	.0	.0	.0		1.0	4.5		.6	1.4	4.0	2.4	.0	.8	1.1
NE	1.1	.9	.2	.0	.0	.0		2.2	4.7		1.0	1.8	3.1	12.1	13.9	7.6	2.0
E	2.0	2.4	.9	.0	.0	.0		4.7	4.6		1.2	1.8	6.3	24.2	27.2	18.0	6.3
SE	2.4	3.2	.6	.0	.0	.0		5.7	3.9		3.7	6.1	8.2	.0	1.1	6.1	9.4
S	3.9	7.7	.0	.0	.0	.0		11.0	4.3		7.9	5.2	1.3	.0	.0	3.5	10.5
SW	3.0	26.7	.8	.0	.0	.0		30.5	6.0		39.1	28.2	3.1	3.2	2.2	.6	22.4
W	2.1	18.9	4.1	.0	.0	.0		25.2	7.6		35.7	45.7	42.0	3.2	5.6	9.6	13.0
NW	1.3	4.1	.2	.0	.0	.0		5.6	5.5		3.7	5.9	18.3	12.9	1.1	3.8	5.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0
CALM	14.2							14.2	.0		3.1	4.0	19.6	41.9	48.9	48.8	21.7
TOT OBS	600	1298	116	0	0	0	2014		5.1		331	198	36	31	45	86	506
TOT PCT	29.8	64.4	5.8	.0	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-6	7-16	17-27	28-40	41+						00	03	06	09	12	15	18
N	.8	.1	.0	.0	.0			1.0	4.5		.8	3.4	.0	.0	1.0		
NE	1.8	.3	.0	.0	.0			2.2	4.7		1.2	6.3	.0	.0	1.5		
E	4.1	.6	.0	.0	.0			4.7	4.6		1.3	12.6	.0	.0	4.3		
SE	5.5	.2	.0	.0	.0			5.7	3.9		4.9	1.4	.0	.0	7.0		
S	10.0	1.0	.0	.0	.0			11.0	4.3		7.2	.9	.0	.0	2.3		
SW	18.9	12.0	.0	.0	.0			30.5	6.0		36.1	3.2	1.1	.0	32.5		
W	10.1	14.9	.1	.0	.0			25.2	7.6		38.4	28.2	.0	.0	17.9		
NW	3.9	1.7	.0	.0	.0			5.6	5.5		3.8	16.4	.0	.0	4.9		
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	.0		
CALM	14.2							14.2	.0		4.8	27.6	48.9	13.3			
TOT OBS	1389	622	3	0	0	2014			5.1		729	87	131	1067			
TOT PCT	69.0	30.9	.1	.0	.0			100.0			100.0	100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1971-1977  
(OVER-ALL) 1968-1977

MAY

VALDEZ, AK  
61.1N 146.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000	4.8	9.3	74.9	11.0	.0	.0	.0	.0	6.6	100.0	720
0600	27.6	26.4	42.3	3.6	.0	.0	.0	.0	2.6	100.0	87
1200	48.9	19.8	29.8	1.5	.0	.0	.0	.0	2.2	100.0	131
1800	15.3	18.5	63.4	2.9	.0	.0	.0	.0	4.5	100.0	1067
TOT	286	314	1298	116	0	0	0	0	5.1		2014
PCT	14.2	15.6	64.4	5.8	.0	.0	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.2	.4		7.3
NE	.3	.3	1.3	2.7		6.5
E	.0	.0	1.8	10.0		7.7
SE	.0	.7	1.8	6.0		6.9
S	1.4	1.0	1.3	7.4		6.5
SW	2.1	1.3	2.4	12.0		6.6
W	.9	.2	2.4	13.2		7.3
NW	.3	.1	1.7	6.2		7.2
VAR	.0	.0	.0	.0		.0
CALM	1.2	.9	2.6	17.8		7.2
TOT OBS	21	15	35	251	340	7.0
TOT PCT	6.2	4.4	15.6	73.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)  
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	300 399	400 499	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM ANY	<5/8 HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	.2	.2	
NE	.1	.0	.9	.4	.0	.0	2.0	.0	.0	.1	1.2		
E	.2	.2	1.4	2.1	1.7	2.0	1.3	.6	.0	.2	1.8		
SE	.0	.1	.7	.8	1.4	.5	.3	.1	.0	.1	2.6		
S	.0	.0	.2	.8	2.2	1.3	.9	.7	.0	.4	6.3		
SW	.0	.3	.9	.6	1.9	1.9	.7	.1	1.0	1.9	9.0		
W	.0	.3	1.2	.9	2.6	3.6	.7	.3	.7	1.0	5.4		
NW	.0	.0	.3	.9	1.0	.7	1.0	1.2	.4	.7	2.1		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	.0	1.2	2.6	.6	3.2	.9	2.6	.6	1.2	2.1	7.4		
TOT OBS	1	7	28	46	37	34	12	11	24	116	340		
TOT PCT	.3	2.1	8.2	7.1	13.5	10.9	10.0	3.5	3.2	7.1	34.1	100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	OR			VSBY (NM)					OR >0
	>10	>5	>2	>1	>1/2	>1/4	>50YD		
OR >4500	9.4	10.3	10.3	10.3	10.3	10.3	10.3	10.3	
OR >5000	12.4	13.8	13.8	13.8	13.8	13.8	13.8	13.8	
OR >5500	18.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	
OR >2000	36.5	36.7	36.7	36.7	36.7	36.7	36.7	36.7	
OR >1000	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	
OR >400	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	
OR >300	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	
OR >150	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	
OR >0	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	
TOTAL	106	205	223	223	224	224	224	224	

TOTAL NUMBER OF OBS: 340

PCT FREQ NM <5/8: 34.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	9.3	14.3	7.1	3.8	2.6	6.2	11.8	3.3	44.1	.3	340

PERIOD: (PRIMARY) 1971-1977  
(OVER-ALL) 1968-1977

MAY

VALDEZ, AK  
61.1N 146.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.2	.0	.2	.0	.0	.0	.3	.8	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.2	.0	.2	.0	.0	.0	.3	.8	
1/2<1	PCP	.0	.0	.2	.2	.0	.2	.1	.0	.0	.7	1.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.2	.2	.0	.2	.1	.0	.0	.7	1.4	
1<2	PCP	.0	.0	.0	.1	.1	.1	.1	.0	.0	.2	.5	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.1	.1	.1	.0	.0	.2	.5	
2<5	PCP	.0	.1	.4	.3	.5	.7	.7	.2	.0	1.0	3.9	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.4	.3	.5	.7	.7	.2	.0	1.0	3.9	
5<10	PCP	.1	.3	1.2	1.2	.9	2.0	3.3	.8	.0	2.4	12.2	
	NO PCP	.1	.3	.9	.5	.8	1.3	2.2	.9	.0	1.4	8.2	
	TOT %	.2	.6	2.1	1.7	1.5	3.4	5.5	1.7	.0	3.8	20.5	
10+	PCP	.2	.1	.4	.3	.4	2.1	1.9	.2	.0	1.3	6.9	
	NO PCP	.5	1.4	1.6	2.9	8.9	23.9	16.9	3.4	.0	8.8	63.8	
	TOT %	.7	1.4	2.0	3.2	8.9	26.0	18.8	3.6	.0	8.1	72.7	
TOT OBS													2014
TOT PCT		1.0	2.2	4.7	5.7	11.0	30.5	25.2	5.6	.0	14.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.1	.0	.1	.0	.0	.0	.3	.6	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.0	.1	.0	.0	.0	.3	.6	
1/2<1	0-3	.0	.0	.1	.1	.0	.0	.0	.0	.0	.7	1.0	
	4-10	.0	.0	.1	.1	.0	.1	.1	.0	.0	.0	.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.2	.2	.0	.2	.1	.0	.0	.7	1.5	
1<2	0-3	.0	.0	.0	.1	.1	.1	.1	.0	.0	.2	.5	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.1	.1	.1	.0	.0	.2	.5	
2<5	0-3	.0	.1	.1	.3	.2	.3	.3	.1	.0	1.0	2.4	
	4-10	.0	.0	.2	.1	.2	.4	.2	.1	.0	.0	1.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.4	.4	.5	.7	.7	.2	.0	1.0	4.0	
5<10	0-3	.2	.4	1.0	.7	.8	.7	.5	.3	.0	3.8	8.5	
	4-10	.0	.2	1.2	1.0	.7	2.6	4.4	1.1	.0	.0	11.1	
	11-21	.0	.0	.0	.0	.0	.1	.6	.1	.0	.0	.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.6	2.1	1.7	1.5	3.4	5.5	1.7	.0	3.8	20.5	
10+	0-3	.2	.6	.7	1.2	2.2	1.8	1.3	.6	.0	8.1	16.7	
	4-10	.5	.7	.9	1.9	6.7	23.5	14.1	2.8	.0	.0	51.2	
	11-21	.0	.2	.3	.0	.0	.7	3.4	.1	.0	.0	4.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.7	1.4	2.0	3.2	8.9	26.0	18.8	3.6	.0	8.1	72.7	
TOT OBS													2014
TOT PCT		1.0	2.2	4.7	5.7	11.0	30.5	25.2	5.6	.0	14.2	100.0	

MAY

PERIOD: (PRIMARY) 1971-1977  
(OVER-ALL) 1968-1977

TABLE 10

VALDEZ, AK  
41.1N 146.3WPERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND  
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	3.4	3.4	3.4	14.8	18.2	5.7	3.4	2.3	3.4	58.0	47.0	88
06009	.0	1.9	1.9	11.1	14.8	7.4	22.2	5.6	5.6	7.4	77.8	22.2	54
12015	1.2	2.5	12.3	8.2	11.1	11.1	16.0	1.2	1.2	6.2	69.1	30.9	81
18021	.0	.9	12.0	8.5	13.7	6.8	3.4	4.3	4.3	10.3	44.1	35.9	117
TOT	1	7	28	24	46	37	34	12	11	24	224	116	340
PCT	.3	2.1	8.2	7.1	13.5	10.9	10.0	3.5	3.2	7.1	65.9	34.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.7	.5	.8	3.3	10.2	76.4	729
06009	.0	.0	.0	8.0	31.0	60.9	87
12015	.0	.8	.0	6.1	42.0	51.1	131
18021	1.0	2.3	.9	3.9	18.5	73.8	1067
TOT	16	30	11	81	412	1464	2014
PCT	.8	1.5	.5	4.0	20.5	72.7	100.0

TABLE 12

CUMULATIVE PCT FREE OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	6.8	12.3	46.6	40.9	88
06009	.0	3.7	22.2	59.3	18.5	54
12015	1.2	16.0	24.7	45.7	29.6	81
18021	.0	12.8	23.1	42.7	34.2	117
TOT	1	36	70	160	110	340
PCT	.3	10.6	20.6	47.1	32.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.1	.0	.0	.0	.0	.0	.0	1	.1
65/69	.0	.7	.0	.0	.1	.0	.0	.0	7	.8
60/64	.0	.0	1.0	.6	.1	.0	.0	.0	15	1.7
55/59	.4	2	1.3	2.2	1.7	.7	.0	.0	59	6.6
50/54	.0	.7	1.3	5.0	8.2	9.9	1.5	.0	184	20.6
45/49	.0	.1	.7	2.7	9.2	11.2	4.8	1.0	265	29.6
40/44	.0	.0	.0	.1	3.1	7.0	8.9	7.6	240	26.8
35/39	.0	.0	.0	.0	.1	.9	3.0	8.5	112	12.5
30/34	.0	.0	.0	.0	.0	.2	.0	1.0	11	1.2
TOTAL	4	16	39	95	201	214	163	162	894	100.0
PCT	.4	1.8	4.4	10.6	22.5	23.9	18.2	18.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALN
00003	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
06009	.0	.0	.0	.0	.1	.2	.4	.0	.0	.0
12015	.0	.0	.1	.0	.1	.2	1.2	.0	.0	.0
18021	.0	.1	.2	.1	.2	1.9	3.4	.0	.1	.1
TOT	.2	.1	.2	.3	.2	8.3	7.7	1.6	.0	.1
PCT	.2	.4	.3	.2	.2	8.8	7.3	2.2	.0	1.1
	.6	1.1	3.4	2.4	2.6	2.4	4.8	2.4	.0	6.9
	.0	1.0	2.9	.5	.3	.6	1.3	1.0	.0	5.5
	.0	.3	.2	.0	.0	.0	.1	.0	.0	.7
	1.0	3.0	7.1	6.3	11.5	22.7	26.1	7.8	.0	14.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00003	70	65	59	48	38	35	34	48.0	729
06009	57	56	53	42	34	33	33	42.8	87
12015	50	49	46	40	34	33	33	39.6	131
18021	69	60	54	45	37	34	31	45.3	1047
TOT	70	63	57	45	36	34	31	45.0	2014

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	1.3	20.7	30.3	22.3	9.5	5.7	63	264		
06009	.0	4.6	10.3	33.3	20.7	31.0	80	87		
12015	.0	.0	3.1	11.5	32.8	52.7	87	131		
18021	.0	15.8	26.2	26.9	18.7	12.4	72	412		
TOT	4	130	201	214	163	162	73	894		

JUNE

PERIOD: (PRIMARY) 1971-1977  
(OVER-ALL) 1969-1977VALDEZ, AK  
61.1N 146.3W

TABLE 1

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
N	21.4	28.6	.0	.0	14.3	.0	.0	64.3	.0	.0	.0	.0	.0	.0	35.7
NE	26.7	6.7	4.4	.0	.0	.0	.0	33.3	.0	.0	4.4	.0	.0	.0	62.2
E	26.8	10.7	1.3	.0	.0	.0	.0	38.8	.0	.0	3.1	.0	.0	.0	58.0
SE	26.8	3.0	1.5	.0	.0	.0	.0	31.3	.0	.0	2.7	.0	1.2	.0	64.8
S	25.9	2.6	1.3	.0	.0	.0	.0	29.8	.0	.0	1.8	.0	.0	.0	68.6
SW	15.3	2.1	.7	.0	.0	.0	.0	18.0	.0	.0	.9	.0	1.9	.0	79.2
W	16.2	4.6	.7	.0	.1	.0	.0	21.8	.0	.0	.4	.0	.4	.0	77.7
NW	18.8	8.9	1.1	.0	.3	.0	.0	28.8	.0	.0	1.4	.0	1.1	.0	68.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	19.9	.6	4.2	.0	.0	.0	.0	24.1	.0	.0	3.0	.0	1.8	.0	71.1
TOT PCT	17.8	3.5	1.2	.0	.1	.0	.0	22.4	.0	.0	1.2	.0	1.2	.0	75.3
TOT OBS:	2076														

TABLE 2

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000Z	15.2	4.0	.7	.0	.0	.0	.0	19.6	.0	.0	.1	.0	1.7	.0	78.5
0600Z	13.5	3.6	3.6	.0	.0	.0	.0	23.6	.0	.0	.0	.0	.0	.0	76.4
1201Z	16.9	4.6	2.3	.0	.0	.0	.0	23.8	.0	.0	1.5	.0	.0	.0	74.6
1802Z	20.1	2.8	1.0	.0	.2	.0	.0	24.0	.0	.0	1.9	.0	1.0	.0	73.1
TOT PCT	17.8	3.5	1.2	.0	.1	.0	.0	22.4	.0	.0	1.2	.0	1.2	.0	75.3
TOT OBS:	2076														

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.2	.2	.0	.0	.0	.0		.3	4.5		.2	.4	1.7	.0	.0	1.8	.3	.2
NE	.5	.5	.0	.0	.0	.0		1.1	4.1		.3	.1	.8	20.0	7.4	3.9	1.3	.1
E	1.6	.9	.2	.0	.0	.0		2.7	4.4		1.3	.4	4.2	8.3	7.4	11.7	4.6	1.1
SE	2.2	1.8	.1	.0	.0	.0		4.0	3.7		1.2	.3	3.4	18.3	8.3	10.5	6.9	1.6
S	2.8	4.7	.0	.0	.0	.0		7.5	4.3		3.4	1.9	.0	.0	4.3	8.7	16.5	6.7
SW	4.3	35.5	1.1	.0	.0	.0		40.9	6.4		43.3	35.0	13.1	.0	2.1	4.2	36.1	39.8
W	1.9	23.7	5.6	.0	.0	.0		31.3	7.8		43.4	34.2	47.0	3.3	.0	5.1	18.8	28.9
NW	1.0	2.8	.4	.0	.0	.0		4.2	6.2		4.6	5.9	17.8	.0	8.5	4.5	2.3	3.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.0							8.0	.0		.2	1.3	11.9	30.0	61.7	49.4	11.2	2.2
TOT OBS	467	1457	153	0	0	0	2077		6.0		584	193	59	30	47	83	509	593
TOT PCT	22.5	70.1	7.4	.0	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00 03					06 09	12 15	18 21	
N	.3	.0	.0	.0	.0	.3	4.5	.2	1.1	1.2	.3		
NE	1.0	.1	.0	.0	.0	1.1	4.1	.3	.5	7.3	5.2	.7	
E	2.3	.3	.0	.0	.0	2.7	4.4	1.1	5.6	10.2	2.7		
SE	3.9	.1	.0	.0	.0	4.0	3.7	1.1	8.4	9.8	5.0		
S	6.7	.8	.0	.0	.0	7.5	4.3	3.0	.0	7.1	11.2		
SW	21.8	19.2	.0	.0	.0	40.9	6.4	42.7	8.7	3.5	46.7		
W	11.4	19.6	.3	.0	.0	31.3	7.8	46.2	32.3	3.3	24.2		
NW	2.4	1.8	.0	.0	.0	4.2	6.2	4.9	11.0	6.0	2.9		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	8.0					8.0	.0	.3	24.7	53.8	6.4		
TOT OBS	1201	869	7	0	0	2077		759	89	130	1099		
TOT PCT	97.8	41.8	.3	.0	.0		100.0	100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1971-1977  
(OVER-ALL) 1968-1977

JUNE

VALDEZ, AK  
61.1N 146.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				40+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000Z	.5	4.6	79.4	15.3	.0	.0	.0	.0	7.9	100.0	759
0600Z	24.7	23.6	48.3	3.4	.0	.0	.0	.0	9.9	100.0	89
1200Z	43.8	30.0	16.2	.0	.0	.0	.0	.0	1.7	100.0	130
1800Z	6.4	18.7	71.4	3.1	.0	.0	.0	.0	5.3	100.0	1099
TOT	166	301	1457	183	.0	.0	.0	.0	6.0		2077
PCT	8.0	14.5	70.1	7.4	.0	.0	.0	.0	100.0		

TABLE 4

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.2		8.0
NE	.0	.3	.0	2.7		7.3
E	.0	.0	.0	4.1		8.0
SE	.3	.6	.0	5.4		7.2
S	.9	.6	1.7	4.1		6.3
SW	5.6	3.4	6.7	20.4		8.2
W	1.8	.0	1.5	9.4		6.8
NW	1.5	.0	.7	3.3		5.9
VAR	.0	.0	.0	.0		.0
CALM	1.7	2.0	1.1	20.0		7.0
TOT OBS	41	24	41	249	355	6.6
TOT PCT	11.5	6.8	11.4	70.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)  
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH ANY HGT	<5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0
NE	.0	.3	.0	.4	.6	.7	.0	.4	.0	.3			.3
E	.0	.0	.0	.7	1.0	.7	.3	.2	.3	.2			.2
SE	.0	.0	.1	.0	1.3	1.3	2.1	.0	.0	.6	1.0		1.0
S	.0	.2	1.1	.6	1.1	.8	.6	.0	.0	.2	2.2		2.2
SW	.0	.1	.6	1.7	3.8	4.7	3.7	.8	1.1	1.5	18.8		18.8
W	.0	.0	.3	.3	2.7	4.4	1.1	.0	.2	.3	3.5		3.5
NW	.0	.0	.6	.0	.5	.1	.9	.0	.4	.0	3.0		3.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.6	.6	3.1	.8	1.4	2.8	5.1	1.4	.6	.6	7.9		7.9
TOT OBS	4	4	20	16	42	56	53	7	10	12	131		355
TOT PCT	1.1	1.1	5.6	4.5	11.8	15.8	14.9	2.0	2.8	3.4	36.9		100.0

TABLE 7

CUMULATIVE PCT FRQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM)					= OR >0
				= OR >1	= OR >1/2	= OR >1/4	= OR >50YD		
= OR >4500	5.1	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
= OR >4000	6.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
= OR >3500	18.6	22.8	23.1	23.1	23.1	23.1	23.1	23.1	23.1
= OR >3000	10.7	38.3	38.9	38.9	38.9	38.9	38.9	38.9	38.9
= OR >1000	36.3	50.1	50.7	50.7	50.7	50.7	50.7	50.7	50.7
= OR >500	36.6	52.7	55.2	55.2	55.2	55.2	55.2	55.2	55.2
= OR >100	37.2	56.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
= OR >50	37.2	56.9	61.7	62.0	62.0	62.0	62.0	62.0	62.0
= OR >0	37.2	56.9	61.7	62.3	62.8	63.1	63.1	63.1	63.1
TOTAL	132	202	219	221	223	224	224	224	224

TOTAL NUMBER OF OBS: 355

PCT FREQ NH <5/8: 36.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	12.1	14.1	5.4	3.4	2.0	3.4	9.1	1.7	31.8	1.1	355

PERIOD: (PRIMARY) 1971-1977  
(OVER-ALL) 1968-1977

JUNE

VALDEZ, AK  
61.1N 146.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSDBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	NO PCP	.0	.0	*	.0	.0	*	.0	.0	.0	.0	.1	
	TOT %	.0	.0	*	.0	.0	*	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.1	
1<2	PCP	.0	.0	*	*	*	.1	.2	*	.0	.1	.6	
	NO PCP	.0	.0	.0	*	.0	.1	*	.0	.0	*	.5	
	TOT %	.0	.0	*	.1	*	.3	.2	*	.0	.2	.9	
2<5	PCP	*	.1	.1	.3	.7	1.7	1.3	.2	.0	.5	4.4	
	NO PCP	.0	*	.0	.1	.1	1.0	.2	.1	.0	.3	1.9	
	TOT %	*	.2	.1	.4	.3	2.7	1.5	.3	.0	.8	6.3	
5<10	PCP	.1	.2	.6	.7	1.4	3.7	3.8	.8	.0	1.0	12.3	
	NO PCP	*	.3	.7	.4	.9	3.7	3.7	.3	.0	1.1	11.3	
	TOT %	.2	.5	1.2	1.3	2.5	7.4	7.6	1.0	.0	2.1	23.6	
10+	PCP	*	*	.3	.3	.6	1.8	1.4	.2	.0	.2	4.8	
	NO PCP	.1	.3	.9	2.0	4.2	28.6	20.5	2.6	.0	4.8	64.0	
	TOT %	.1	.4	1.3	2.3	4.6	30.5	22.0	2.9	.0	4.8	68.8	
TOT OBS													2076
TOT PCT		.3	1.1	2.7	4.0	7.5	40.9	31.3	4.2	.0	7.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	.0	.0	*	.0	.0	*	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	*	.0	.0	*	.0	.0	.0	*	.1	
1/2<1	0-3	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
	4-10	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.1	
1<2	0-3	.0	.0	*	.1	*	.1	.2	*	.0	.2	.6	
	4-10	.0	.0	.0	.0	.0	.2	.1	.0	.0	.0	.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	*	.1	*	.3	.2	*	.0	.2	.9	
2<5	0-3	*	.1	*	.3	.1	.4	.2	.2	.0	.8	2.2	
	4-10	.0	.1	.1	.1	.2	2.3	1.3	.1	.0	.0	4.0	
	11-21	.0	.0	.0	.0	.0	.0	.1	*	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	.2	.1	.4	.3	2.7	1.3	.3	.0	.8	6.3	
5<10	0-3	.1	.2	.8	.7	1.2	1.3	.7	.3	.0	2.1	7.4	
	4-10	.1	.3	.4	.6	1.3	6.1	3.9	.7	.0	.0	13.3	
	11-21	.0	.0	.0	.0	.0	*	.9	*	.0	.0	.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.5	1.2	1.3	2.5	7.4	7.6	1.0	.0	2.1	23.6	
10+	0-3	*	.2	.7	1.2	1.4	2.3	.9	.3	.0	4.8	12.2	
	4-10	.1	.1	.4	1.0	3.2	20.9	10.4	2.1	.0	.0	30.2	
	11-21	.0	*	.2	.1	.0	1.1	4.6	.3	.0	.0	6.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.4	1.3	2.3	4.6	30.5	22.0	2.9	.0	4.8	68.8	
TOT OBS													2076
TOT PCT		.3	1.1	2.7	4.0	7.5	40.9	31.3	4.2	.0	7.9	100.0	

JUNE

PERIOD: (PRIMARY) 1971-1977  
(OVER-ALL) 1968-1977

TABLE 10

VALDEZ, AK  
61.1N 146.3WPERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 999	400 999	500 999	600 1499	700 3499	800 4499	900 5999	1000 7999	1100 8000+	TOTAL NH ANY	5/8 HGT	TOTAL OBS
0000Z	.0	.0	2.3	4.6	9.2	23.0	13.8	1.1	2.3	1.1	97.5	47.5	87	
0600Z	.0	1.7	5.1	8.5	5.1	15.3	22.0	3.4	8.5	5.1	74.6	25.4	59	
1201Z	3.3	2.2	6.7	4.4	11.1	13.3	21.1	4.4	2.2	3.3	72.2	27.8	90	
1802Z	.8	.8	7.6	2.5	17.6	12.6	7.6	.0	.8	4.2	84.6	45.4	119	
TOT PCT	4 1.1	4 1.1	20 5.6	16 4.5	42 11.8	96 15.8	93 14.9	7 2.0	10 2.8	12 3.4	224 63.1	131 36.9	355 100.0	

TABLE 11

PERCENT FREQUENCY VSRV (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10<	TOTAL OBS
0000Z	.0	.0	.4	5.0	19.5	75.1	759
0600Z	.0	.0	.0	6.7	27.0	66.3	89
1201Z	.8	.8	2.9	4.6	34.6	56.9	130
1802Z	.2	.1	1.1	7.4	25.2	66.0	1498
TOT	3	2	18	131	494	1428	2076
PCT	.1	.1	.9	6.3	23.8	68.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRV (NM) AND/OR  
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <90YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
0000Z	.0	2.3	10.3	49.4	40.2	87
0600Z	.0	6.8	16.9	59.3	23.7	59
1201Z	3.3	12.2	18.9	54.4	26.7	90
1802Z	.8	9.2	12.6	42.9	44.5	119
TOT	4	28	51	178	126	355
PCT	1.1	7.9	14.4	50.1	35.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
64/69	.0	.0	1.1	1.4	.3	.0	.0	.0	29	3.3
60/64	.0	.0	1.0	3.4	3.7	.2	.1	.0	77	8.7
55/59	.0	.1	.6	5.2	11.5	5.3	.8	.0	208	23.4
50/54	.0	.0	.0	1.1	8.7	7.3	12.2	1.4	272	30.7
45/49	.0	.0	.0	.0	.1	4.1	15.1	11.0	269	30.3
40/44	.0	.0	.0	.0	.0	.1	.7	2.7	31	3.5
35/39	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	0	1	24	104	216	131	236	135	877	100.0
PCT	.0	.1	2.7	11.7	24.4	17.0	26.9	15.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.1	.0	.0	1.9	.8	.5	.0	.0
.0	.0	.1	.1	.1	3.6	4.3	.5	.0	.0
.0	.0	.0	.2	1.7	11.4	8.5	1.3	.0	.3
.1	.5	1.0	2.2	3.3	10.2	10.1	1.0	.0	2.4
.4	1.1	2.2	3.2	4.2	6.0	3.2	1.8	.0	8.2
.0	.0	.2	.1	.3	.0	.0	.1	.0	2.6
.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
.5	1.6	3.6	5.9	9.6	33.1	26.9	3.1	.0	13.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	83	77	66	56	47	41	39	56.2	759
0600Z	65	60	57	51	49	43	43	50.7	88
1201Z	52	51	51	47	43	41	39	46.7	130
1802Z	80	68	63	52	45	39	35	52.8	1099
TOT	83	71	64	53	45	40	35	53.6	2076

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	29.2	33.1	17.1	15.0	4.7	67	297
0600Z	.0	4.5	23.9	18.2	33.0	20.3	79	88
1201Z	.0	.0	.8	10.8	41.5	46.9	88	130
1802Z	.0	12.1	26.5	18.7	32.0	10.7	74	412
TOT	0	129	216	131	236	135	75	887

JULY

PERIOD: (PRIMARY) 1969-1977  
(OVER-ALL) 1967-1977VALDEZ, AK  
41.1N 146.3W

TABLE 1

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG MO PCPN	FOG MO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	N7 SIG WFA
N	34.7	.0	.0	.0	.0	.0	.0	34.7	.0	.0	6.1	.0	.0	.0	59.2
NE	13.9	.0	.0	.0	.0	.0	.0	13.9	.0	.0	3.7	.0	.0	.0	82.4
E	28.5	1.3	3.8	.0	.0	.0	.0	33.3	.0	.0	3.8	.0	.0	.0	82.7
SE	23.9	1.6	6.1	.0	.0	.0	.0	31.6	.0	.0	6.8	.0	.0	.0	61.6
S	21.9	3.1	4.2	.0	.0	.0	.0	28.3	.0	.0	2.7	.0	.0	.0	69.0
SW	14.3	.7	2.9	.0	.0	.0	.0	17.1	.0	.0	1.7	.0	.0	.0	81.2
W	8.8	1.9	2.2	.0	.0	.0	.0	12.1	.0	.0	2.0	.0	.0	.0	83.9
NW	16.3	2.9	1.9	.0	.0	.0	.0	20.0	.0	.0	1.0	.0	.0	.0	79.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	24.7	.4	5.7	.0	.0	.0	.0	28.0	.0	.0	4.7	.0	.0	.0	67.4
TOT PCT	16.1	1.4	3.3	.0	.0	.0	.0	19.7	.0	.0	2.6	.0	.0	.0	77.7
TOT OBS:	2061														

TABLE 2

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG MO PCPN	FOG MO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	N7 SIG WEA
0000	14.8	1.6	2.1	.0	.0	.0	.0	18.1	.0	.0	1.3	.0	.0	.0	81.7
0600	.0	.0	7.1	.0	.0	.0	.0	7.1	.0	.0	2.4	.0	.0	.0	90.5
1200	17.1	.8	3.3	.0	.0	.0	.0	21.1	.0	.0	11.4	.0	.0	.0	67.3
1800	17.6	1.3	4.0	.0	.0	.0	.0	21.2	.0	.0	3.4	.0	.0	.0	73.3
TOT PCT TOT OBS:	16.1 2061	1.4	3.3	.0	.0	.0	.0	19.7	.0	.0	2.6	.0	.0	.0	77.7

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	.5	.1	.0	.0	.0	.0	.0	.6	2.6	.1	.0	2.4	.0	.0	.0	.0	1.6	.4
NE	.5	.1	.0	.0	.0	.0	.0	1.3	6.3	.7	.1	7.3	.0	.0	.0	1.2	2.3	1.0
E	1.2	2.3	.8	.0	.0	.0	.0	3.9	5.4	2.4	2.3	14.0	.0	.0	.0	6.6	5.9	3.2
SE	2.6	2.1	.0	.0	.0	.0	.0	4.7	3.5	1.3	2.8	.6	.0	.0	.0	7.4	10.3	3.7
S	4.2	5.3	.0	.0	.0	.0	.0	9.3	3.8	6.1	5.0	1.8	.0	.0	.0	3.6	7.6	18.8
SW	3.8	29.8	.4	.0	.0	.0	.0	34.2	5.7	41.8	31.2	10.4	.0	.0	.0	7.8	22.4	44.9
W	2.1	21.4	4.6	.0	.0	.0	.0	28.3	7.5	39.7	48.3	44.3	.0	.0	.0	5.1	13.1	27.6
NW	1.0	2.5	.4	.0	.0	.0	.0	3.8	6.0	4.5	4.8	16.3	.0	.0	.0	1.3	1.9	4.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	13.9	.0	.0	.0	.0	.0	.0	13.3	.0	3.3	5.3	2.4	100.0	90.3	62.7	23.2	7.6	
TOT OBS	404	1331	124	1	0	0	2064		5.1	374	218	41	1	21	102	304	603	
TOT PCT	29.3	64.5	6.2	.0	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	.6	.0	.0	.0	.0	.6	2.8	.1	2.4	.0	.0	.0	.0	
NE	.8	.5	.0	.0	.0	1.3	6.3	.7	7.1	.0	1.0	1.6	.9	
E	3.1	.6	.2	.0	.0	3.9	5.4	2.3	13.7	.5	5.5	4.4	.0	
SE	4.7	.0	.0	.0	.0	4.7	3.5	1.7	.6	.0	6.1	6.8	.0	
S	9.3	.2	.0	.0	.0	9.3	3.8	5.8	1.8	.0	6.9	12.7	.0	
SW	23.8	10.4	.0	.0	.0	34.2	5.7	38.9	10.1	.7	34.7	.0	.0	
W	11.2	17.3	.1	.0	.0	28.3	7.5	42.1	43.3	.4	21.0	.0	.0	
NW	2.3	1.3	.0	.0	.0	3.8	6.0	4.6	16.1	.1	3.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	13.9	.0	.0	.0	.0	13.3	.0	3.3	4.8	67.3	14.7	.0	.0	
TOT OBS	1428	630	6	0	0	2064		5.1	374	42	123	1107		
TOT PCT		30.5	.3	0	0		100.0		100.0	100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1969-1977  
(OVER-ALL) 1967-1977

JULY

VALDEZ, AK  
61.1N 146.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000Z	3.9	6.9	77.8	11.2	.1	.0	.0	.0	6.8	100.0	792
0600Z	4.8	21.4	59.5	14.3	.0	.0	.0	.0	6.4	100.0	42
1200Z	17.5	20.3	11.4	.8	.0	.0	.0	.0	1.2	100.0	123
1800Z	14.7	21.3	61.1	2.9	.0	.0	.0	.0	4.3	100.0	1107
TOT	279	395	1931	128	1	0	0	0	5.1		2064
PCT	13.5	15.7	64.5	6.2	.0	.0	.0	.0	100.0		

TABLE 4

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.5	8.0	.0
E	.0	.0	.0	.4	8.0	.0
SE	.0	.0	.0	1.1	8.0	.0
S	1.5	.0	2.5	9.7	6.9	.0
SW	9.7	2.8	6.0	24.4	5.7	.0
W	1.7	.6	1.8	9.9	6.6	.0
NW	.1	.1	.2	2.4	7.6	.0
VAR	.0	.0	.0	.0	.0	.0
CALM	3.5	1.1	2.8	16.5	6.5	.0
TOT OBS	47	13	187	285	6.3	
TOT PCT	16.5	4.6	19.3	65.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)  
AND OCCURRENCE OF NM <3/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3999	3500 4999	5000 6499	6500 7999	8000+ ANY HGT	NM <3/8 TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.4
E	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0
SE	.1	.1	.4	.1	.0	.4	.0	.0	.1	.0	.0
S	.9	2.0	.9	.6	2.1	.6	.6	.0	.8	.0	5.4
SW	2.2	2.1	5.2	1.4	4.4	3.0	.3	1.1	.7	1.8	21.1
W	.6	.7	1.5	.4	3.2	1.0	1.3	.0	.4	.0	9.1
NW	.0	.4	.4	.0	.8	.7	.3	.0	.0	.0	.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8	3.5	2.1	.7	2.1	1.1	.7	1.4	1.4	1.1	8.1
TOT OBS	14	25	30	11	34	19	12	7	9	115	285
TOT PCT	4.9	8.8	10.5	3.9	11.9	6.7	4.2	2.5	3.2	3.2	40.4

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM)		= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
				= OR >1	= OR >1/2					
= OR >4500	6.0	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
= OR >4000	8.4	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
= OR >3500	12.6	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
= OR >3000	19.3	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6
= OR >2500	28.1	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6
= OR >2000	29.5	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1
= OR >1500	41.6	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
= OR >1000	42.6	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
= OR >500	42.6	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
TOTAL	93	137	150	141	166	168	170	170	170	170

TOTAL NUMBER OF OBS: 285

PCT FREQ NM <3/8: 40.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
14.0	14.7	8.4	2.8	1.4	4.6	5.3	2.1	44.6	3.2	285

PERIOD: (PRIMARY) 1969-1977  
(OVER-ALL) 1967-1977

JULY

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41.1N 146.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSRY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	TOT %	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.3
1/2<1	PCP	.0	.0	.0	.2	.2	.4	.2	.0	.0	.7	1.7	
	NO PCP	.0	.0	.0	.1	.0	.1	.1	.0	.0	.1	.3	
	TOT %	.0	.0	.0	.3	.2	.5	.3	.0	.0	.8	2.0	
1<2	PCP	.0	.0	.3	.1	.3	.7	.2	.0	.0	.4	2.1	
	NO PCP	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.4	
	TOT %	.0	.0	.3	.1	.3	.8	.3	.0	.0	.4	2.5	
2<5	PCP	.0	.1	.5	.7	.5	1.4	1.0	.3	.0	.7	5.2	
	NO PCP	.0	.0	.0	.1	.1	.1	.1	.0	.0	.3	.9	
	TOT %	.0	.1	.5	.8	.6	1.5	1.2	.3	.0	1.0	6.1	
5<10	PCP	.1	.0	.3	.3	.8	1.9	1.5	.3	.0	1.3	6.3	
	NO PCP	.1	.2	.5	1.2	1.9	3.5	4.2	.8	.0	1.2	13.3	
	TOT %	.2	.2	.8	1.5	2.7	5.4	5.7	1.1	.0	2.5	20.1	
10+	PCP	.0	.0	.1	.3	.8	1.3	.6	.2	.0	.8	4.0	
	NO PCP	.2	.9	1.9	1.8	4.8	24.5	20.3	2.2	.0	8.0	64.8	
	TOT %	.2	.9	2.0	2.1	5.6	25.8	21.1	2.4	.0	8.8	68.8	
TOT OBS													
TOT PCT													
		.6	1.4	3.9	4.7	9.3	34.2	28.3	3.8	.0	13.3	100.0	2064

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.2	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.3	
1/2<1	0-3	.0	.0	.0	.3	.1	.3	.1	.0	.0	.8	1.7	
	4-10	.0	.0	.0	.0	.0	.2	.1	.0	.0	.0	.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.3	.2	.5	.3	.0	.0	.8	2.0	
1<2	0-3	.0	.0	.2	.1	.3	.2	.1	.0	.0	.4	1.4	
	4-10	.0	.0	.2	.0	.0	.6	.2	.0	.0	.0	1.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.4	.1	.4	.8	.3	.0	.0	.4	2.5	
2<5	0-3	.0	.2	.2	.6	.4	.3	.3	.2	.0	1.0	3.1	
	4-10	.0	.0	.4	.2	.2	1.2	.8	.0	.0	.0	2.8	
	11-21	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.2	.6	.8	.6	1.5	1.2	.3	.0	1.0	6.1	
5<10	0-3	.2	.2	.4	.7	1.3	1.2	.4	.3	.0	2.5	7.2	
	4-10	.1	.0	.4	.8	1.4	4.1	4.5	.8	.0	.0	12.1	
	11-21	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.2	.9	1.5	2.7	5.4	5.7	1.1	.0	2.5	20.1	
10+	0-3	.2	.2	.4	1.0	2.0	1.7	1.1	.3	.0	8.6	13.7	
	4-10	.0	.5	1.2	1.1	3.8	23.4	18.2	1.8	.0	.0	47.8	
	11-21	.0	.2	.3	.0	.0	.6	3.7	.3	.0	.0	5.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.9	2.0	2.1	5.8	25.8	21.1	2.4	.0	8.6	68.8	
TOT OBS													
TOT PCT													
		.6	1.3	3.9	4.7	9.3	34.2	28.3	3.8	.0	13.3	100.0	2064

JULY

PERIOD: (PRIMARY) 1969-1977  
(OVER-ALL) 1967-1977

TABLE 10

VALDEZ, AK  
61.1N 146.3WPERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND  
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	3.3	10.0	6.7	14.4	8.9	10.0	1.1	2.2	1.1	57.8	49.2	90
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	50.0	50.0	50.0	2
12015	10.1	15.9	10.1	2.9	5.8	5.8	4.3	4.3	5.8	4.3	69.6	30.4	69
18021	5.6	8.9	11.3	2.4	13.7	5.6	.0	2.4	2.4	3.2	55.6	44.4	124
TOT	14	25	30	11	34	19	12	7	9	9	170	115	285
PCT	4.9	8.8	10.5	3.9	11.9	6.7	4.2	2.5	3.2	3.2	59.0	40.4	100.0

TABLE 11

PERCENT FREQUENCY VSRY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	1.0	1.5	4.4	14.9	76.1	792
06009	.0	.0	.0	4.8	31.0	64.3	42
12015	4.1	5.7	4.1	8.9	21.1	56.1	123
18021	.2	2.8	7.2	7.0	21.0	61.1	1107
TOT	7	46	52	125	414	1420	2064
PCT	.3	2.2	2.9	6.1	20.1	68.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NM) AND/NR  
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	13.3	20.0	37.8	42.2	90
06009	.0	.0	.0	50.0	50.0	2
12015	10.1	36.2	40.6	30.4	29.0	69
18021	5.6	25.8	28.2	27.4	44.4	124
TOT	14	69	81	90	114	285
PCT	4.9	24.2	28.4	31.6	40.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.2	.2	.0	.0	.0	.0	.0	2	.3
70/74	.0	.0	.0	1.5	.0	.0	.0	.0	13	2.1
65/69	.0	.0	.7	2.9	2.6	.0	.0	.0	98	6.2
60/64	.0	.0	.0	2.8	12.2	3.6	.0	.0	114	18.5
55/59	.0	.0	.0	.0	2.9	18.0	11.2	1.5	207	33.7
50/54	.0	.0	.0	.0	.2	7.4	15.6	13.8	197	32.0
45/49	.0	.0	.0	.0	.0	.0	.8	6.3	44	7.2
TOTAL	0	1	10	43	110	148	170	133	615	100.0
PCT	.0	.2	1.6	7.4	17.9	24.1	27.6	21.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0
70/74	.0	.0	.0	.0	.0	1.5	.6	.0	.0	.0
65/69	.0	.0	.0	.2	.0	3.1	2.7	.2	.0	.0
60/64	.0	.2	.2	.0	1.6	6.8	9.0	.8	.0	.0
55/59	.4	.7	.7	2.3	4.6	9.2	12.7	1.8	.0	1.1
50/54	.0	.1	1.3	3.0	6.6	6.4	5.3	1.2	.0	8.1
45/49	.0	.0	.3	.4	.9	.9	.1	.0	.0	4.6
TOTAL	.4	.9	2.6	5.8	13.7	28.3	30.4	4.0	.0	13.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	81	78	70	59	52	48	46	59.9	792
06009	65	66	65	50	53	52	52	56.7	42
12015	56	55	59	50	47	46	40	50.1	123
18021	79	75	66	56	50	48	45	57.1	1107
TOT	81	77	68	57	50	47	45	57.7	2064

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	13.3	20.3	37.3	20.9	5.1	71	215		
06009	.0	2.4	7.1	33.3	45.2	11.9	90	42		
12015	.0	.0	.0	3.5	25.6	70.9	92	84		
18021	.0	7.4	16.2	25.0	30.9	20.6	79	272		
TOT	0	54	110	148	170	133	78	615		

PERIOD: (PRIMARY) 1967-1976  
(OVER-ALL) 1967-1976

AUGUST

VALDEZ, AK  
41.1N 146.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 00 TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
N	72.8	.0	.0	.0	.0	.0	.0	22.8	.0	.0	.0	.0	.0	.0	77.2
NE	71.4	.0	.3	.0	.0	.0	.0	21.7	.0	.0	2.0	.0	.0	.0	76.3
E	32.2	1.9	2.6	.0	.0	.0	.0	36.7	.0	.0	5.6	.0	.0	.0	57.7
SE	21.5	2.2	1.7	.0	.0	.0	.0	24.5	.0	.0	3.0	.0	.0	.0	72.5
S	70.2	2.2	6.2	.0	.0	.0	.0	26.6	.0	.0	4.5	.0	.0	.0	68.9
SW	14.9	.9	2.6	.0	.0	.0	.0	17.6	.0	.0	4.3	.0	.0	.0	78.1
W	14.9	2.9	1.5	.0	.0	.0	.0	19.3	.0	.3	2.5	.0	.0	.0	77.8
NW	18.8	5.2	.3	.0	.0	.0	.0	24.3	.0	.0	3.0	.0	.0	.0	72.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	26.4	1.4	5.3	.0	.0	.0	.0	32.0	.0	.4	7.0	.0	.0	.0	60.6
TOT PCT	19.4	1.8	3.0	.0	.0	.0	.0	23.5	.0	.1	4.2	.0	.0	.0	72.2
TOT OBS:	1816														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 00 TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
00003	21.4	2.9	1.6	.0	.0	.0	.0	25.9	.0	.1	1.7	.0	.0	.0	72.3
06009	4.2	8.3	.0	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0	.0	87.5
12019	15.5	2.9	5.8	.0	.0	.0	.0	24.3	.0	.0	13.6	.0	.0	.0	62.1
18021	18.0	.7	3.7	.0	.0	.0	.0	21.9	.0	.1	5.2	.0	.0	.0	72.8
TOT PCT TOT OBS:	19.4 1816	1.8	3.0	.0	.0	.0	.0	23.4	.0	.1	4.3	.0	.0	.0	72.2

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.2	.7	.1	.0	.0	.0		1.1	5.7		1.2	1.0	.0	.0	7.7	2.2	.8	.0
NE	1.2	1.5	1.4	.0	.0	.0		4.1	7.9		2.9	3.0	6.3	.0	9.6	1.7	6.5	3.6
E	2.7	2.4	.6	.0	.0	.0		5.9	5.1		2.7	5.7	18.8	.0	5.8	14.2	10.3	3.4
SE	4.1	3.8	.4	.0	.0	.0		8.2	4.0		4.3	5.2	9.4	.0	7.7	3.6	13.9	7.5
S	3.6	6.1	.9	.0	.0	.0		11.9	4.0		9.5	10.1	8.1	.0	.0	3.9	15.0	14.9
SW	4.4	26.9	.1	.0	.0	.0		32.4	5.1		42.2	29.4	6.2	.0	7.7	5.8	15.4	44.1
W	7.3	12.7	1.4	.0	.0	.0		13.7	6.3		25.6	29.0	24.0	.0	5.8	9.4	5.5	11.2
NW	1.6	3.1	.3	.0	.0	.0		5.0	5.2		6.3	8.3	11.3	.0	1.9	5.8	3.2	3.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	15.6							15.6	.0		5.2	8.2	20.8	.0	53.8	53.3	27.1	11.2
TOT OBS	705	1030	81	0	0	0	1816			4.4	516	183	24	0	13	90	447	543
TOT PCT	38.4	56.7	4.5	.0	.0	.0		100.0			100.0	100.0	100.0	.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	.8	.2	.0	.0	.0		1.1	5.7	1.1	.0	2.9	.0	
NE	2.0	1.8	.2	.0	.0		4.1	7.9	2.9	6.3	2.7	4.9	
E	4.7	1.1	.1	.0	.0		5.9	5.1	3.5	18.8	13.1	6.5	
SE	7.4	.8	.0	.0	.0		8.3	4.0	4.3	9.4	4.1	11.3	
S	11.0	.9	.0	.0	.0		11.9	4.0	9.7	2.1	3.4	14.6	
SW	25.7	6.6	.0	.0	.0		32.4	5.1	38.8	4.2	6.1	31.2	
W	9.5	6.3	.0	.0	.0		15.7	6.3	26.5	26.0	9.0	8.6	
NW	3.6	1.4	.0	.0	.0		5.0	5.2	6.9	11.5	5.3	3.5	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	15.6						15.6	.0	6.8	20.8	53.4	18.4	
TOT OBS	1460	350	6	0	0	1816		4.4	699	24	103	990	
TOT PCT	80.4	19.3	.3	.0	.0		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1968-1976  
(OVER-ALL) 1967-1976

AUGUST

VALDEZ, AK  
61.1N 146.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000Z	6.0	16.0	71.4	6.6	.0	.0	.0	.0	5.6	100.0	699
0600Z	70.8	22.2	45.8	.0	.0	.0	.0	.0	2.8	100.0	24
1200Z	43.4	26.2	17.3	2.9	.0	.0	.0	.0	1.8	100.0	103
1800Z	18.4	27.7	30.7	3.2	.0	.0	.0	.0	3.8	100.0	99
TOT	284	491	1030	11	.0	.0	.0	.0	4.4		1816
PCT	15.6	23.2	56.7	4.3	.0	.0	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN COVER
N	.0	.0	.3	1.4		7.8
NE	.0	.0	.1	1.4		7.9
E	.3	.8	.4	4.0		6.7
SE	1.0	.0	.4	1.3		4.9
S	3.0	.0	2.5	13.4		6.6
SW	6.6	1.2	5.6	21.4		6.2
W	3.0	1.6	1.0	3.4		5.3
NW	1.4	.4	.0	2.8		5.1
VAR	.0	.0	.0	.0		.0
CALM	1.2	.8	9.5	14.3		7.1
TOT OBS	4	12	35	104	255	6.4
TOT PCT	1.6	4.7	13.7	40.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)  
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1499	2000 3499	3500 4999	5000 6499	6500 7999	8000+ ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.4	1.1	.0	.4
NE	.0	.0	.0	.0	.2	.4	.0	.1	.5	.0	.0
E	.4	.0	.8	.0	1.0	.0	.4	.7	.0	.0	2.3
SE	.0	.0	.0	.4	.0	.0	.0	.0	.4	.0	1.4
S	.7	1.9	9.2	.8	1.8	2.3	.8	.3	.8	.0	6.7
SW	.5	2.5	7.3	2.4	2.9	4.1	.8	1.3	.8	.9	18.0
W	.0	.0	1.2	.0	2.0	.9	.4	.4	.0	.3	5.9
NW	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	2.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.1	1.6	2.7	.8	2.0	1.2	.0	3.1	1.2	.4	3.9
TOT OBS	12	16	26	11	25	26	6	16	12	4	101
TOT PCT	4.7	6.3	10.2	4.3	9.8	10.2	2.4	6.3	4.7	1.6	39.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >4500	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
= OR >4000	11.0	11.8	12.5	12.5	12.5	12.5	12.5	12.5
= OR >3500	13.3	14.1	14.9	14.9	14.9	14.9	14.9	14.9
= OR >3000	22.7	24.3	25.1	25.1	25.1	25.1	25.1	25.1
= OR >2500	28.6	32.9	34.5	34.5	34.5	34.5	34.5	34.5
= OR >2000	30.6	36.9	38.8	39.2	39.2	39.2	39.2	39.2
= OR >1500	42.2	43.5	47.5	48.2	49.0	49.0	49.4	49.4
= OR >1000	42.2	47.1	52.2	53.3	55.3	55.3	55.7	55.7
= OR >500	42.9	48.6	54.1	56.1	58.8	60.0	60.4	60.4
TOTAL	84	124	138	143	150	153	154	154

TOTAL NUMBER OF OBS: 255

PCT FREQ NM <5/8: 39.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	12.2	18.4	6.3	2.4	.4	4.7	9.8	3.3	47.4	255

PERIOD: (PRIMARY) 1965-1976  
(OVER-ALL) 1967-1976

AUGUST

VALDEZ, AK  
61.1N 146.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.1	.0	.0	.2	.0	.0	.0	.1	.4	
	NO PCP	.0	.0	.0	.1	.1	.3	.0	.0	.0	.3	.7	
	TOT %	.0	.1	.2	.1	.1	.4	.0	.0	.0	.4	1.2	
1/2<1	PCP	.0	.1	.4	.2	.4	.8	.2	.1	.0	.5	2.4	
	NO PCP	.0	.0	.1	.0	.1	.0	.0	.0	.0	.2	.4	
	TOT %	.0	.1	.5	.2	.4	.8	.2	.1	.0	.7	3.0	
1<2	PCP	.1	.1	.4	.5	.5	.7	.3	.2	.0	1.0	3.5	
	NO PCP	.0	.0	.0	.0	.2	.2	.1	.0	.0	.1	.3	
	TOT %	.1	.1	.4	.5	.7	.9	.3	.2	.0	1.1	4.0	
2<5	PCP	.1	.2	.5	.6	.8	1.3	.8	.3	.0	1.0	5.5	
	NO PCP	.0	.1	.2	.2	.3	.8	.2	.1	.0	.4	2.4	
	TOT %	.1	.3	.7	.8	1.1	2.1	1.0	.4	.0	1.4	7.9	
5<10	PCP	.1	.2	.5	.5	1.2	1.2	.9	.4	.0	1.4	6.4	
	NO PCP	.1	.3	.5	.8	1.2	2.8	1.0	.6	.0	1.7	9.0	
	TOT %	.2	.5	1.0	1.3	2.3	4.0	1.9	1.0	.0	3.1	15.4	
10+	PCP	.0	.2	.3	.2	.5	1.5	.9	.3	.0	1.0	5.0	
	NO PCP	.7	2.2	2.9	5.2	7.1	22.6	11.3	5.1	.0	8.0	63.6	
	TOT %	.8	3.0	3.2	5.4	7.6	24.1	12.2	5.3	.0	9.0	68.6	
TOT OBS													1816
TOT PCT		1.1	4.1	5.9	8.3	11.9	32.4	15.7	5.0	.0	15.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.1	.1	.1	.1	.0	.0	.0	.4	.7	
	4-10	.0	.1	.1	.0	.0	.3	.0	.0	.0	.0	.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.2	.1	.1	.4	.0	.0	.0	.4	1.2	
1/2<1	0-3	.0	.1	.3	.1	.4	.6	.0	.0	.0	.7	2.1	
	4-10	.0	.0	.2	.1	.1	.2	.2	.1	.0	.0	.9	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.5	.2	.4	.8	.2	.1	.0	.7	3.0	
1<2	0-3	.1	.0	.2	.3	.5	.5	.2	.1	.0	1.1	3.1	
	4-10	.0	.1	.2	.2	.0	.3	.1	.1	.0	.0	.9	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	.4	.5	.5	.9	.3	.2	.0	1.1	4.0	
2<5	0-3	.1	.2	.4	.6	.7	.6	.4	.2	.0	1.4	4.6	
	4-10	.0	.1	.2	.2	.4	1.3	.6	.2	.0	.0	3.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.3	.7	.8	1.1	2.1	1.0	.4	.0	1.4	7.9	
5<10	0-3	.0	.4	.5	.7	1.6	.6	.3	.5	.0	3.1	7.7	
	4-10	.2	.1	.5	.5	.8	3.4	1.4	.5	.0	.0	7.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.5	1.0	1.3	2.3	4.0	1.9	1.0	.0	3.1	15.4	
10+	0-3	.1	.3	1.1	2.3	2.4	2.9	1.3	.9	.0	9.0	20.5	
	4-10	.6	1.1	1.5	2.7	4.9	21.1	9.8	2.2	.0	.0	43.9	
	11-21	.1	1.4	.6	.4	.2	.1	1.1	.3	.0	.0	4.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.8	3.0	3.2	5.4	7.6	24.1	12.2	3.3	.0	9.0	68.6	
TOT OBS													1816
TOT PCT		1.1	4.1	5.9	8.3	11.9	32.4	15.7	5.0	.0	15.6	100.0	

AUGUST

PERIOD: (PRIMARY) 1964-1976  
(OVER-ALL) 1967-1976VALDEZ, AK  
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	2.4	9.4	4.7	10.6	18.8	1.2	2.4	4.7	.0	54.1	45.9	85				
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0				
12015	12.2	2.0	4.1	2.0	14.3	6.1	2.0	18.4	6.1	6.1	73.5	26.5	49				
18021	5.0	10.7	13.2	5.0	7.4	5.8	3.3	4.1	4.1	.8	99.5	40.5	121				
TOT PCT	12 4.7	16 6.3	20 10.2	11 4.3	25 9.8	26 10.2	6 2.4	16 6.3	12 4.7	4 1.6	154 60.4	101 39.6	255 100.0				

TABLE 11

PERCENT FREQUENCY VSRY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.4	1.6	2.9	6.9	16.9	71.4	700
06009	.0	.0	.0	8.3	20.8	70.8	24
12015	5.8	4.9	10.7	6.8	13.6	58.3	103
18021	1.2	3.9	4.2	8.8	14.4	67.4	991
TOT PCT	21 1.2	35 3.0	73 4.0	144 7.9	280 13.4	1245 88.5	1818 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NH) AND/OR  
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	11.8	17.6	36.5	45.9	85
06009	.0	.0	.0	.0	.0	0
12015	12.2	20.4	30.6	44.9	24.5	49
18021	5.0	28.9	33.9	23.6	40.5	121
TOT PCT	12 4.7	35 21.6	71 27.8	86 32.9	100 39.2	255 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.2	1.8	1.1	.8	.2	.0	.0	.0	23	5.0
65/69	.4	1.0	1.4	2.4	2.2	.2	.0	.0	39	7.8
60/64	.4	.8	.6	1.0	8.4	3.4	.4	.0	73	15.1
55/59	.8	.6	.0	.0	1.8	14.1	11.6	1.8	153	30.7
50/54	.4	.2	.2	1.0	.4	1.8	9.6	17.1	153	30.7
45/49	.0	.0	.0	.0	.8	.2	1.8	7.0	48	9.6
40/44	.0	.0	.0	.0	.0	.2	.0	.8	9	1.0
TOTAL PCT	11 2.2	22 4.4	21 4.2	27 5.4	69 13.9	99 19.9	116 23.3	133 26.7	498	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.2	.0	.3	.9	3.0	.6	.1	.0	.0
.0	.2	.4	.7	1.8	2.8	1.3	.7	.0	.0
.2	.3	1.0	1.3	2.0	5.6	3.1	1.6	.0	.0
.7	.7	1.4	3.6	5.4	9.7	6.3	1.6	.0	1.4
.4	1.3	1.7	2.3	8.0	5.0	1.5	1.4	.0	9.0
.2	.3	1.0	.2	.6	.9	.7	.3	.0	5.6
.0	.0	.0	.0	.0	.0	.0	.2	.0	.8
1.3	2.9	5.4	8.6	18.6	27.0	13.4	5.8	.0	16.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	77	73	68	58	39	49	48	59.0	700
06009	62	61	60	56	32	32	52	56.4	24
12015	57	56	55	48	41	38	38	48.4	103
18021	77	71	65	55	48	46	44	55.5	990
TOT	77	72	66	56	48	45	38	56.5	1817

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	2.9	19.3	22.8	23.7	18.7	10.5	49	171		
06009	.0	.0	4.2	29.2	38.3	8.3	82	24		
12015	.0	1.7	.0	6.8	18.6	72.9	91	39		
18021	2.5	14.8	11.9	18.0	24.2	28.7	76	244		
TOT	11	70	69	99	116	133	76	498		

PERIOD: (PRIMARY) 1971-1976  
(OVER-ALL) 1967-1976

SEPTEMBER

VALDEZ, AK  
61.1N 146.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FREN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	43.5	5.8	2.2	.0	.0	.0	.0	49.3	.0	.0	.0	.0	.0	.0	50.7	
NE	42.2	2.6	2.0	.0	.0	.0	.0	46.2	.0	.0	.0	.0	.0	.0	53.8	
E	35.3	.9	.9	.0	.0	.0	.0	36.2	.0	.0	2.0	.0	.0	.0	61.8	
SE	19.7	5.0	.8	.0	.0	.0	.0	24.7	.0	.0	1.9	.0	.0	.0	73.4	
S	27.1	2.7	.7	.0	.0	.0	.0	29.8	.0	.0	2.0	.0	.0	.0	68.2	
SW	22.4	3.7	.8	.0	.0	.0	.0	26.5	.0	.0	1.5	.0	.0	.0	72.0	
W	32.9	5.7	.5	.0	.0	.0	.0	39.2	.0	.0	.0	.0	.0	.0	60.8	
NW	28.9	8.9	1.2	.0	.0	.0	.0	39.0	.0	.0	2.4	.0	.0	.0	58.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	33.5	2.7	1.5	.0	.0	.0	.0	36.2	.0	.0	3.1	.0	.0	.0	60.8	
TOT PCT	29.6	4.0	1.0	.0	.0	.0	.0	33.9	.0	.0	1.7	.0	.0	.0	64.4	
TOT OBS:	1299															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PERCENT PRECIPITATION TYPE																OTHER WEATHER PHENOMENA					
WUHR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FREN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG	NO SIG WEA						
0000Z	32.8	4.6	.4	.0	.0	.0	.0	37.6	.0	.0	.4	.0	.0	.0	62.0						
0600Z	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0						
1200Z	31.0	2.0	3.0	.0	.0	.0	.0	34.0	.0	.0	3.0	.0	.0	.0	61.0						
1800Z	27.3	3.9	1.1	.0	.0	.0	.0	31.4	.0	.0	2.0	.0	.0	.0	68.6						
TOT PCT	29.6	4.0	1.0	.0	.0	.0	.0	33.9	.0	.0	1.7	.0	.0	.0	64.4						
TOT OBS:	1260																				

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WNO DIR	WIND SPED (KNOTS)							48+	TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	1.3	1.4	.1	.0	.0	.0	2.7	4.6	2.2	3.1	.0	.0	.0	12.5	1.8	3.6	2.1	
NE	2.3	2.8	.9	.0	.0	.0	6.0	5.7	5.0	2.9	.0	.0	.0	7.8	8.6	6.8	6.8	
E	2.5	3.1	1.4	.0	.0	.0	7.0	6.5	6.1	5.1	.0	.0	.0	9.6	4.8	10.1	5.9	
SE	4.9	4.8	.6	.0	.0	.0	10.3	4.4	7.5	6.1	.0	.0	.0	14.1	8.6	15.7	11.3	
S	5.9	3.0	.0	.1	.0	.0	10.9	3.9	11.5	8.0	.0	.0	.0	6.3	8.3	12.0	11.2	
SW	5.9	14.6	.8	.8	.0	.0	20.3	4.7	27.2	17.4	.0	.0	.0	.0	5.1	9.4	30.3	
W	3.2	11.5	.6	.0	.0	.0	15.2	5.5	25.4	28.9	.0	.0	.0	.0	11.0	4.5	12.7	
NW	3.0	3.2	.6	.0	.0	.0	6.7	5.0	7.2	8.8	.0	.0	.0	6.3	4.2	8.3	4.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	20.7						20.7	.0	7.7	19.7	.0	.0	.0	43.8	47.6	31.7	15.3	
TOT DBS	626	382	30	1	0	0	1259	3.9	338	122	.0	.0	.0	16	84	338	361	
TOT PCT	49.7	46.2	4.0	.1	.0	.0		100.0	100.0	100.0	.0	.0	.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							41+	TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40								00	03	06	12	18
N	2.2	.5	.0	.0	.0	.0	.0	2.7	4.6	2.4	.0	.0	.0	.0	3.5	2.8
NE	4.4	1.6	.8	.0	.0	.0	.0	6.0	5.7	4.5	.0	.0	.0	.0	8.5	6.7
E	4.7	1.8	.5	.0	.0	.0	.0	7.0	6.5	5.9	.0	.0	.0	.0	9.5	7.9
SE	8.8	1.5	.0	.0	.0	.0	.0	10.3	4.4	7.2	.0	.0	.0	.0	9.5	12.4
S	10.3	.6	.0	.1	.0	.0	.0	10.9	3.9	10.3	.0	.0	.0	.0	8.0	11.4
SW	17.9	2.8	.0	.8	.0	.0	.0	20.3	4.7	24.6	.0	.0	.0	.0	4.3	20.2
W	10.9	4.3	.0	.0	.0	.0	.0	15.2	5.5	26.4	.0	.0	.0	.0	9.3	8.7
NW	5.1	1.6	.0	.0	.0	.0	.0	6.7	5.0	7.7	.0	.0	.0	.0	6.3	8.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	20.7							20.7	.0	10.9	.0	.0	.0	.0	47.0	23.3
TOT DBS	1069	182	7	1	0	0	1259	100.0		460	0	100.0	.0	.0	100.0	699
TOT PCT	84.9	14.5	.6	.1	.0	.0		100.0		100.0		100.0	.0	.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1971-1976  
(OVER-ALL) 1967-1976

VALDEZ, AK  
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
0000	10.9	26.1	59.1	3.7	.2	.0	.0	4.7	100.0	460
0600	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
1200	47.0	31.0	20.0	2.0	.0	.0	.0	2.1	100.0	100
1800	23.3	30.8	41.5	4.4	.0	.0	.0	3.7	100.0	699
TOT	260	366	582	50	1	0	0	3.9		1259
PCT	20.7	29.1	46.2	4.0	.1	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS'D	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.4	3.5	7.9	7.9
NE	.5	.0	.4	7.9	7.5	7.5
E	.3	.4	.0	4.4	7.2	7.2
SE	.4	.0	.7	3.5	7.0	7.0
S	.7	.0	2.0	12.5	7.4	7.4
SW	2.2	1.1	1.7	17.5	6.9	6.9
W	.4	.0	.7	9.8	7.7	7.7
NW	.0	.4	.0	5.4	7.7	7.7
VAR	.0	.0	.0	.0	.0	.0
CALM	1.8	.7	2.2	19.5	7.1	7.1
TOT OBS	17	7	29	225	271	7.3
TOT PCT	6.3	2.6	8.1	83.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)  
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	.0	.3	.4	.0	.7	.0	.4	.4	.4	.0	1.4	
NE	.0	.1	.0	.7	1.1	.0	.7	.7	.7	.0	3.2	
E	.4	.6	.0	.0	1.8	.0	.3	.0	.4	.4	1.7	
SE	.0	.9	.5	.0	.4	.2	.4	.4	.4	.4	1.2	
S	.0	2.9	1.4	.4	3.0	1.0	1.1	.7	.4	.3	4.2	
SW	.5	.4	2.6	.3	3.0	2.4	1.1	1.1	1.6	.5	8.9	
W	.3	.4	1.8	.3	1.5	1.7	.0	.0	1.3	.4	3.4	
NW	.0	.0	.5	.0	1.5	1.6	.0	.7	.1	.0	1.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.5	.4	3.0	.4	3.3	1.5	.4	1.1	1.5	1.8	8.5	
TOT OBS	7	16	27	6	39	29	11	15	17	12	92	271
TOT PCT	2.6	5.9	10.0	2.2	14.4	10.7	4.1	5.5	6.3	4.4	33.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>3000	>0
>4500	10.3	10.7	10.7	10.7	10.7	10.7	10.7	10.7
>3000	14.4	16.2	16.2	16.2	16.2	16.2	16.2	16.2
>2500	17.3	19.2	19.2	19.2	20.3	20.3	20.3	20.3
>2000	25.1	29.2	29.5	30.6	31.0	31.0	31.0	31.0
>1000	31.4	42.1	43.2	45.0	45.4	45.4	45.4	45.4
>600	31.7	43.2	45.4	47.2	47.6	47.6	47.6	47.6
>400	32.1	50.9	55.0	57.2	57.6	57.6	57.6	57.6
>150	32.8	54.2	60.5	62.7	63.5	63.5	63.5	63.5
>0	32.8	55.0	62.0	64.9	65.7	65.7	66.1	66.1
TOTAL	49	149	168	176	178	178	179	179

TOTAL NUMBER OF OBS: 271

PCT FREQ NM <5/8: 33.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBS'D	TOTAL OBS
9.7	19.9	11.8	3.3	2.2	3.7	8.9	4.8	48.3	271

## SEPTEMBER

PERIOD: (PRIMARY) 1971-1976  
(OVER-ALL) 1967-1976VALDEZ, AK  
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.4	.6
	TOT %	.0	.0	.0	.0	.1	.1	.1	.1	.0	.0	.7	
1/2<1	PCP	.0	.0	.0	.0	.2	.0	.2	.0	.0	.2	.3	
	NO PCP	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1	.2	.2
	TOT %	.0	.0	.0	.0	.2	.1	.2	.0	.0	.2	.7	
1<2	PCP	.0	.0	.0	.2	.1	.3	.0	.2	.0	.3	1.4	
	NO PCP	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.2	.2
	TOT %	.0	.0	.0	.3	.2	.4	.0	.2	.0	.3	1.6	
2<5	PCP	.3	.7	.8	.6	.6	1.1	.8	.6	.0	2.6	8.2	
	NO PCP	.0	.0	.1	.1	.0	.2	.0	.1	.0	.2	.6	.6
	TOT %	.3	.7	1.0	.7	.6	1.3	.8	.7	.0	2.8	8.8	
5<10	PCP	.8	1.5	1.1	.8	1.4	1.7	2.7	1.1	.0	2.6	13.7	
	NO PCP	.0	.3	.4	.2	.4	.4	.3	.2	.0	1.4	3.3	.3
	TOT %	.8	1.8	1.4	1.0	1.8	2.1	3.1	1.3	.0	4.0	17.2	
10+	PCP	.3	.6	.6	.9	1.1	2.2	2.2	.6	.0	1.6	10.0	
	NO PCP	1.6	3.0	3.9	7.4	7.0	14.4	8.9	3.7	.0	11.2	60.9	
	TOT %	1.7	3.5	4.5	8.2	8.1	16.6	11.1	4.3	.0	12.8	70.9	
TOT OBS													1259
TOT PCT		2.7	6.0	7.0	10.3	10.9	20.5	15.2	6.7	.0	20.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.1	.0	.1	.1	.0	.4	.6	
	4-10	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.1	.1	.1	.1	.0	.4	.7	
1/2<1	0-3	.0	.0	.0	.0	.2	.0	.2	.0	.0	.2	.6	
	4-10	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.2	.1	.2	.0	.0	.2	.7	
1<2	0-3	.0	.0	.0	.2	.1	.3	.0	.2	.0	.3	1.3	
	4-10	.0	.0	.0	.1	.1	.1	.0	.1	.0	.0	.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.3	.2	.4	.0	.2	.0	.3	1.6	
2<5	0-3	.2	.4	.4	.3	.4	.6	.3	.5	.0	2.8	5.9	
	4-10	.1	.3	.6	.4	.1	.7	.6	.2	.0	.0	2.9	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.7	1.0	.7	.6	1.3	.9	.7	.0	2.8	8.8	
5<10	0-3	.3	.7	.9	.7	1.2	1.0	1.1	.7	.0	4.0	10.6	
	4-10	.5	1.1	.6	.3	.6	1.1	1.8	.6	.0	.0	6.4	
	11-21	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.8	1.8	1.4	1.0	1.8	2.1	3.1	1.3	.0	4.0	17.2	
10+	0-3	.8	1.2	1.3	3.7	4.0	3.9	1.5	1.5	.0	12.8	30.7	
	4-10	.8	1.4	1.9	4.0	4.1	12.6	3.1	2.4	.0	.0	36.3	
	11-21	.1	.9	1.4	.6	.0	.0	.4	.4	.0	.0	3.8	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	TOT %	1.7	3.5	4.5	8.2	8.1	16.6	11.1	4.3	.0	12.8	70.9	
TOT OBS													1259
TOT PCT		2.7	6.0	7.0	10.3	10.9	20.5	15.2	6.7	.0	20.7	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1971-1976  
(OVER-ALL) 1967-1976

TABLE 10

VALDEZ, AK  
61.1N 146.3W

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND  
OCCURRENCE OF NM <3/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 9499	3000 4999	5000 6499	6000 7999	8000+	TOTAL	NM <3/8 ANY HGT	TOTAL OBS
00003	4.5	.0	12.4	1.1	12.4	14.6	3.4	4.5	4.5	2.2	89.6	40.4	89
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
12015	1.6	8.1	4.8	3.2	14.5	9.7	3.2	12.9	9.7	6.5	74.2	25.8	62
18021	1.7	9.2	10.8	2.5	15.8	8.3	5.0	2.3	5.8	5.0	66.7	33.3	120
TOT	7	16	27	6	39	39	11	15	17	12	179	92	271
PCT	2.6	5.9	10.0	2.2	14.4	10.7	4.1	5.5	6.3	4.4	66.1	33.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.2	.2	1.3	7.8	17.8	72.6	460
06009	.0	.0	.0	.0	.0	.0	0
12015	4.0	2.0	1.0	11.0	29.0	53.0	100
18021	.6	.9	1.9	9.2	15.2	72.4	699
TOT	9	9	20	111	217	893	1259
PCT	.7	.7	1.6	8.8	17.2	70.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NM >4/8), BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <3/8 AND 5+	TOTAL OBS
00003	4.5	16.9	30.3	40.4	29.2	89
06009	.0	.0	.0	.0	.0	0
12015	1.6	19.4	32.3	50.0	17.7	62
18021	1.7	21.7	33.3	39.2	27.5	120
TOT	7	33	87	114	70	271
PCT	2.6	19.6	32.1	42.1	25.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.2	.0	.0	.0	.0	.0	.0	1	.2
65/69	.0	.4	.4	.2	.0	.0	.0	.0	3	1.1
60/64	.0	.0	1.1	1.1	1.9	1.1	.0	.0	22	4.8
55/59	.2	.2	1.5	1.5	2.0	2.6	1.1	.0	42	9.1
50/54	2.2	.7	.4	.7	2.2	3.5	6.7	2.8	88	19.1
45/49	.4	.2	.0	.0	.2	2.6	7.4	36.1	216	47.0
40/44	.0	.0	.0	.0	.4	.7	2.4	11.5	69	15.0
35/39	.0	.0	.0	.0	.0	.4	.2	2.6	15	3.3
30/34	.0	.0	.0	.0	.0	.0	.0	.4	2	.4
TOTAL	13	8	16	16	29	50	82	246	460	100.0
PCT	2.8	1.7	3.5	3.5	6.3	10.9	17.8	53.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.2	.0	.0
.0	.0	.0	.3	.2	.2	.2	.2	.0	.0
.0	.0	.0	.7	1.3	.8	1.4	.4	.0	.0
.0	.3	.5	1.0	1.5	3.5	1.4	.7	.0	.2
.2	1.1	.8	1.4	2.1	5.6	3.7	2.9	.0	1.3
1.9	3.3	2.5	3.3	7.7	8.3	6.2	2.8	.0	10.9
.8	1.7	.8	.4	2.2	1.1	.8	1.0	.0	6.3
.2	.1	.0	.0	.4	.0	.2	.0	.0	2.4
.0	.0	.0	.0	.0	.0	.0	.2	.0	.7
3.0	6.6	4.6	7.1	15.3	19.4	14.1	8.5	.0	21.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	70	64	61	52	44	42	39	52.2	460
06009									0
12015	52	50	48	43	35	31	31	42.5	100
18021	70	61	56	46	40	37	32	48.2	700
TOT	70	63	59	49	40	35	31	49.2	1260

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	1.9	12.3	9.0	13.5	23.2	40.0	79		79	135
06009										0
12015	.0	3.0	1.5	4.5	7.6	83.3	92		64	64
18021	4.2	7.9	5.9	10.9	17.2	54.0	83		239	239
TOT	13	40	29	30	82	246	83		460	460

PERIOD: (PRIMARY) 1966-1976  
(OVER-ALL) 1967-1976

OCTOBER

VALDEZ, AK  
61.1M 146.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG MO PCPN	FOG MO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	23.5	.0	1.1	.0	6.7	1.1	.0	31.2	.0	.0	.0	.0	.0	.0	68.8
NE	13.7	.3	.0	.0	12.2	.0	.0	25.0	.0	.0	.6	.0	.0	.0	74.4
E	12.0	.5	2.5	.0	3.4	.0	.0	16.6	.0	.0	1.0	.0	.0	.0	82.4
SE	9.1	.0	.0	.0	1.7	.0	.0	10.8	.0	.0	.8	.0	.0	.0	88.9
S	24.9	.0	.0	.0	3.1	.0	.0	28.0	.0	.0	.0	.0	.0	.0	72.0
SW	33.2	1.6	.0	.0	1.9	.0	.0	36.6	.0	.0	.7	.0	.0	.0	62.7
W	37.3	1.2	.0	.0	6.1	.0	.0	43.2	.0	.0	.0	.0	.0	.0	56.8
NW	23.8	2.2	.0	.0	9.3	.0	.0	35.2	.0	.0	1.1	.0	.0	.0	63.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	30.1	.6	4.2	.0	18.0	.0	.0	48.9	.0	.0	1.0	.0	.0	.0	50.1
TOT PCT	23.2	.7	1.8	.0	9.2	.1	.0	33.1	.0	.0	.7	.0	.0	.0	66.2
TOT OBS:	1655														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG MO PCPN	FOG MO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00003	23.5	.8	1.6	.0	6.6	.0	.0	30.5	.0	.0	.2	.0	.0	.0	.0	69.3
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12015	27.0	.0	.9	.0	11.3	.0	.0	39.1	.0	.0	1.7	.0	.0	.0	.0	59.1
18021	22.5	.7	2.0	.0	10.7	.1	.0	34.0	.0	.0	1.0	.0	.0	.0	.0	63.0
TOT PCT	23.2	.7	1.8	.0	9.2	.1	.0	33.1	.0	.0	.7	.0	.0	.0	.0	66.2
TOT OBS:	1655															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.7	3.2	.8	.0	.0	.0		5.7	6.1	4.3	5.2	.0	.0	.0	6.3	8.3	6.7	
NE	2.0	6.7	1.9	.0	.0	.0		10.6	6.9	10.2	8.0	.0	.0	.0	21.1	13.0	13.5	8.3
E	4.0	10.3	2.4	.0	.0	.0		16.9	6.8	13.3	24.8	.0	.0	.0	5.3	15.4	17.3	16.1
SE	2.3	9.6	2.1	.0	.0	.0		10.0	7.2	10.9	10.9	.0	.0	.0	.0	3.4	6.9	13.3
S	1.8	1.5	.2	.0	.0	.0		3.4	4.3	5.1	1.7	.0	.0	.0	.0	1.0	1.7	4.5
SW	2.6	6.1	.0	.0	.0	.0		8.7	4.5	16.0	5.1	.0	.0	.0	5.3	4.2	3.4	8.8
W	3.8	4.9	.3	.0	.0	.0		9.0	4.3	10.9	13.5	.0	.0	.0	5.3	7.8	6.2	7.8
NW	2.2	3.0	.4	.0	.0	.0		5.3	4.9	5.3	4.9	.0	.0	.0	5.3	6.1	5.0	6.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	30.3							30.3	.0	22.0	24.5	.0	.0	.0	57.9	40.6	37.4	30.4
TOT OBS	836	684	134	0	0	0	1655		4.1	459	163	0	0	0	19	96	444	474
TOT PCT	50.5	41.3	8.2	.0	.0	.0		100.0		100.0	100.0	.0	.0	.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	09	12	18
N	3.9	1.6	.3	.0	.0			3.7	6.1	4.3	.0	5.4	6.5
NE	6.3	4.2	.2	.0	.0			10.6	6.9	9.6	.0	14.3	10.8
E	8.9	7.8	.2	.0	.0			16.9	6.8	17.8	.0	13.7	16.8
SE	5.0	4.8	.2	.0	.0			10.0	7.2	10.9	.0	2.8	10.2
S	3.0	.3	.0	.0	.0			3.4	4.3	6.2	.0	.9	3.2
SW	7.6	1.0	.0	.0	.0			8.7	4.5	13.1	.0	4.3	6.2
W	7.9	1.0	.0	.0	.0			9.0	4.3	12.1	.0	7.4	7.0
NW	4.7	.8	.1	.0	.0			5.3	4.9	5.1	.0	7.6	5.6
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALM	30.3							30.3	.0	22.7	.0	43.3	33.8
TOT OBS	1284	394	17	0	0	1655		4.1		622	0	115	918
TOT PCT	77.6	21.4	1.0	.0	.0			100.0		100.0	.0	100.0	100.0

PERIOD: (PRIMARY) 1966-1976  
(OVER-ALL) 1967-1976

# OCTOBER

VALDEZ, AK  
61.1N 146.3W

TABLE 4

## PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000Z	22.7	23.5	44.4	9.5	.0	.0	.0	4.6	100.0	622	
0600Z	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
1200Z	43.5	22.0	30.4	3.5	.0	.0	.0	3.1	100.0	115	
1800Z	43.8	17.0	40.5	8.0	.0	.0	.0	4.0	100.0	918	
TOT	501	395	689	136	0	0	0	4.1		1635	
PCT	30.3	20.2	41.3	8.2	.0	.0	.0	100.0			

TABLE 5

## PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	TOTAL	MEAN
				OBSCN	OBS	CLOUD COVER
N	1.1	.4	1.8	2.9		5.6
NE	2.3	.0	1.4	12.4		6.7
E	2.5	.0	2.3	7.4		6.0
SE	.8	.0	.8	2.4		6.2
S	.4	.0	.3	2.4		6.9
SW	2.0	.8	2.3	8.4		6.4
W	.4	.4	1.0	6.4		7.1
NW	1.3	.0	1.7	2.9		3.6
VAR	.0	.0	.0	.0		.0
CALM	2.0	.4	2.4	26.3		7.3
TOT OBS	32	5	35	189	255	6.7
TOT PCT	12.5	2.0	13.7	71.8	100.0	

TABLE 6

## PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8	TOTAL
	149	299	599	999	1999	3999	4999	6499	7999		ANY HGT	OBS
N	.4	.0	.0	.4	1.1	.0	.3	.0	.8	.0	3.2	
NE	2.0	.1	.8	.8	1.7	.6	1.0	3.4	1.2	.0	6.5	
E	.0	.7	.7	.0	.7	1.0	.7	1.7	.8	.8	9.4	
SE	.0	.8	.5	.1	.1	.4	.0	.0	.0	.0	2.4	
S	.0	.4	.7	.3	.0	.3	.0	.0	.4	.0	1.2	
SW	.0	.4	2.3	1.6	.9	.5	.2	.1	.4	.4	6.9	
W	.8	.4	1.8	.0	.7	.7	.6	.7	.0	.0	2.5	
NW	.4	.0	.0	.0	.4	.1	.0	.0	.4	.0	4.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.9	2.4	4.3	.0	1.6	2.4	1.2	2.7	.4	2.4	9.8	
TOT OBS	19	13	28	8	18	13	10	22	11	9	102	255
TOT PCT	7.5	5.1	11.0	3.1	7.1	5.9	3.9	8.6	4.3	3.5	40.0	100.0

TABLE 7

## CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >4500	7.1	7.8	7.8	7.8	7.8	7.8	7.8	7.8
= OR >4000	13.3	16.1	16.1	16.1	16.1	16.5	16.5	16.5
= OR >3500	15.7	20.0	20.0	20.0	20.0	20.4	20.4	20.4
= OR >3000	18.0	24.3	25.9	25.9	25.9	26.3	26.3	26.3
= OR >2500	18.8	28.6	32.5	32.9	32.9	33.3	33.3	33.3
= OR >2000	20.0	31.6	35.7	36.1	36.1	36.5	36.5	36.5
= OR >1500	21.2	39.6	46.7	47.1	47.1	47.5	47.5	47.5
= OR >1000	22.0	42.4	51.8	52.2	52.2	52.5	52.5	52.5
= OR >0	22.0	42.7	52.5	55.3	59.2	60.0	60.0	60.0
TOTAL	56	109	134	141	151	153	153	153

TOTAL NUMBER OF OBS: 255

PCT FREQ NM <5/8: 40.0

TABLE 7A

## PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL
										OBS
14.1	14.2	8.6	3.9	1.2	2.0	7.5	1.2	42.4	7.1	255

## OCTOBER

PERIOD: (PRIMARY) 1969-1976  
(OVER-ALL) 1967-1976

TABLE 8

VALDEZ, AK  
61.1N 146.8WPERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSRY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.3	.0	.0	.0	.0	.0	.0	.0	1.8	2.1	
	NN PCP	.0	.0	.1	.0	.0	.0	.0	.1	.0	.2	.4	
	TOT %	.1	.3	.1	.0	.0	.0	.0	.1	.0	2.0	2.5	
1/2<1	PCP	.1	.3	.0	.0	.0	.1	.2	.1	.0	2.0	2.8	
	NN PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	TOT %	.1	.3	.0	.0	.0	.2	.2	.1	.0	2.0	2.8	
1<2	PCP	.1	.3	.2	.0	.1	.1	.2	.3	.0	1.1	2.2	
	NN PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.4	.2	.0	.1	.1	.2	.3	.0	1.1	2.3	
2<5	PCP	.6	.5	.9	.4	.5	.8	1.6	.5	.0	4.2	9.8	
	NN PCP	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.6	.5	1.0	.5	.5	.8	1.6	.5	.0	4.2	10.0	
5<10	PCP	.6	.4	1.1	.4	.4	1.3	1.5	1.0	.0	4.6	11.7	
	NN PCP	.3	.8	1.1	.9	.8	.8	.4	.4	.0	2.4	8.0	
	TOT %	.9	1.6	2.2	1.3	1.2	2.1	2.1	1.4	.0	6.9	19.6	
10+	PCP	.5	.5	.7	.2	.2	.9	.4	.1	.0	1.2	4.3	
	NN PCP	1.6	1.1	12.9	7.9	1.7	4.7	4.3	3.1	.0	12.9	36.3	
	TOT %	2.9	1.6	13.5	8.2	1.9	5.6	4.9	3.2	.0	14.1	42.8	
TOT OBS													1655
TOT PCT		5.7	10.6	16.9	10.0	3.4	8.7	9.0	5.3	.0	30.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	2.0	2.1	
	4-10	.0	.3	.0	.0	.0	.0	.0	.1	.0	.0	.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.3	.1	.0	.0	.0	.0	.1	.0	2.0	2.5	
1/2<1	0-3	.0	.1	.0	.0	.0	.0	.2	.1	.0	2.0	2.4	
	4-10	.1	.2	.0	.0	.0	.1	.1	.1	.0	.0	.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.3	.0	.0	.0	.2	.2	.1	.0	2.0	2.8	
1<2	0-3	.1	.0	.1	.0	.1	.0	.0	.1	.0	1.1	1.3	
	4-10	.0	.4	.1	.0	.0	.1	.1	.1	.0	.0	.8	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.4	.2	.0	.1	.1	.2	.3	.0	1.1	2.3	
2<5	0-3	.4	.2	.4	.3	.2	.5	.7	.2	.0	4.2	7.1	
	4-10	.2	.3	.6	.2	.1	.3	.9	.3	.0	.0	2.9	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.6	.5	1.0	.5	.3	.8	1.6	.5	.0	4.2	10.0	
5<10	0-3	.5	.7	.8	.4	.7	.7	.8	.6	.0	6.9	12.1	
	4-10	.3	.8	1.3	.8	.4	1.4	1.3	.8	.0	.0	7.2	
	11-21	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.9	1.6	2.2	1.3	1.2	2.1	2.1	1.4	.0	6.9	19.6	
10+	0-3	.7	1.0	2.6	1.6	.8	1.3	2.1	1.2	.0	14.1	25.3	
	4-10	2.4	4.8	8.4	4.5	1.0	4.3	2.8	1.6	.0	.0	29.3	
	11-21	.8	1.8	2.8	2.0	.2	.0	.2	.4	.0	.0	7.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	3.9	7.6	13.5	8.2	1.9	5.6	4.9	3.2	.0	14.1	42.8	
TOT OBS													1655
TOT PCT		5.7	10.6	16.9	10.0	3.4	8.7	9.0	5.3	.0	30.3	100.0	

PERIOD (PRIMARY) 1968-1976  
(OVER-ALL) 1967-1976

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VALDEZ, AK  
61.1N 146.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND  
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000Z	6.9	3.4	12.6	5.7	5.7	5.7	2.3	9.2	4.0	.0	56.3	43.7	87
0600Z	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
1201Z	8.9	3.6	12.5	1.8	7.1	8.9	5.4	12.5	.0	8.9	69.6	30.4	56
1802Z	7.1	7.1	8.9	1.8	8.0	4.5	6.5	6.3	6.3	3.6	58.0	42.0	112
TOT PCT	19 7.5	13 5.1	28 11.0	8 3.1	18 7.1	15 5.9	10 3.9	22 8.6	11 4.3	9 3.5	153 60.0	107 40.0	255 100.0

TABLE 11

PERCENT FREQUENCY VSRY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000Z	1.8	2.4	.6	8.8	18.6	67.7	622
0600Z	.0	.0	.0	.0	.0	.0	0
1201Z	.9	4.3	3.5	15.7	37.4	38.3	115
1802Z	3.2	2.9	3.3	10.0	18.1	62.5	918
TOT PCT	41 2.5	47 2.8	38 2.3	165 10.0	325 19.6	1039 62.8	1655 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NH) AND/OR  
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 CEILING	<600 VSRY	<1000 VSRY	1000+ AND/OR	NH <5/8 AND 5+	TOTAL OBS
0000Z	6.9	23.0	33.3	24.1	42.5	87
0600Z	.0	.0	.0	.0	.0	0
1201Z	8.9	25.0	33.9	35.7	30.4	56
1802Z	7.1	24.1	31.3	28.6	40.2	112
TOT PCT	19 7.5	61 23.9	83 32.5	73 28.6	99 38.8	255 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.1	.1	.0	.0	.0	.0	.0	2	.3
50/54	.1	.0	.3	.4	1.0	.3	.0	.0	17	2.2
45/49	.4	.7	.5	1.4	1.6	2.0	.8	.3	59	7.7
40/44	.5	1.2	2.5	2.1	4.3	4.3	4.7	10.6	231	30.2
35/39	1.3	2.1	1.5	2.7	1.5	4.2	3.7	20.6	285	37.2
30/34	.0	.7	1.7	.5	.3	1.3	3.4	7.7	119	15.5
25/29	.0	.0	.3	.7	.3	.4	.9	.9	26	3.4
20/24	.0	.0	.3	.3	.1	.1	.7	.3	13	1.7
15/19	.1	.1	.1	.4	.1	.3	.1	.0	10	1.3
10/14	.0	.0	.4	.0	.1	.0	.0	.0	4	.5
TOTAL	19	37	57	67	70	98	109	309	768	100.0
PCT	2.5	4.8	7.4	8.7	9.1	12.8	14.2	40.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
55/59	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0
50/54	.0	.3	.5	.2	.0	.4	.4	.3	.0	.3
45/49	.3	1.0	1.1	.9	.2	2.4	.8	.4	.0	.4
40/44	1.2	2.7	3.1	4.4	1.8	4.5	2.8	1.9	.0	5.9
35/39	1.3	4.2	6.8	3.3	.8	2.2	4.5	3.3	.0	10.4
30/34	.8	1.9	1.9	1.1	.3	.2	.8	1.0	.0	7.7
25/29	.2	1.3	.7	.1	.1	.1	.2	.3	.0	.4
20/24	.6	.3	.2	.2	.0	.0	.2	.1	.0	.1
15/19	.4	.3	.0	.0	.0	.0	.1	.3	.0	.3
10/14	.0	.0	.0	.2	.1	.0	.2	.9	.0	.0
TOTAL	5.1	12.0	16.2	10.3	3.4	9.8	10.0	7.5	.0	25.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	62	60	51	40	32	27	14	40.4	622
0600Z									0
1201Z	50	49	42	36	20	13	13	34.5	115
1802Z	60	57	47	37	27	19	13	37.5	918
TOT	62	58	49	39	28	19	13	38.6	1655

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	2.9	27.1	13.2	13.8	12.6	28.2	71	273
0600Z								0
1201Z	1.8	10.7	4.5	8.0	20.5	54.5	94	112
1802Z	2.4	19.7	7.6	12.1	13.4	44.9	78	381
TOT	19	181	70	98	109	389	76	768

PERIOD: (PRIMARY) 1967-1976  
(OVER-ALL) 1967-1976

NOVEMBER

VALDEZ, AK  
61.1N 146.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHHR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG MD PCPN	FOG MD PAST HR	SMOKE HAZE	BLWG DUST	NO SIG WEA
N	6.3	1.8	.0	.0	18.7	.0	.0	29.8	.0	.0	.0	.0	.0	8.4	65.8
NE	4.5	.6	.0	.0	11.3	.0	.0	15.5	.0	.0	1.2	.0	.0	.4	82.9
E	3.1	.8	.0	.0	12.3	.4	.0	16.5	.0	.0	1.3	.0	.0	.0	82.2
SE	4.9	.7	.0	.0	9.1	.0	.0	14.0	.0	.0	.6	.0	1.2	.0	84.2
S	18.5	.0	.0	.0	14.6	.0	.0	33.1	.0	.0	.0	.0	.0	.0	66.9
SW	17.2	3.3	.0	.0	21.7	1.6	.0	37.3	.0	.0	1.6	.0	.0	.0	61.1
W	10.0	.0	.0	.0	25.7	1.2	.0	31.9	.0	.0	.0	.0	1.2	.0	67.0
NW	11.5	1.3	.0	.0	12.2	1.0	.0	26.2	.0	.0	.0	.0	.0	.3	79.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	14.0	.0	1.3	.0	34.0	.6	.0	44.6	.0	.0	2.3	.0	.0	.0	52.9
TOT PCT	8.0	.7	.5	.0	18.4	.4	.0	26.0	.0	.0	1.3	.0	.2	.6	71.9
TOT OBS:	1818														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG MD PCPN	FOG MD PCPN PAST HR	SMOKE HAZE	BLWG DUST	NO SIG WEA
00003	7.9	.6	.5	.0	19.0	.5	.0	25.9	.0	.0	1.9	.0	.3	.6	71.3
06009	.0	.0	.0	.0	6.3	.0	.0	6.3	.0	.0	3.1	.0	.0	.0	90.6
12013	2.5	.0	.0	.0	11.3	.0	.0	13.8	.0	.0	.0	.0	.0	.0	86.3
18021	8.8	.8	.5	.0	19.7	.4	.0	27.8	.0	.0	.9	.0	.1	.3	70.7
TOT PCT	8.0	.7	.5	.0	18.8	.4	.0	26.0	.0	.0	1.3	.0	.2	.3	72.0
TOT OBS:	1820														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	0-3	WIND SPEED (KNOTS)					48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
		4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	1.5	2.4	.9	.5	.1	.0		5.4	8.8	4.1	4.5	2.2	.0	6.6	6.5	5.7	5.0	
NE	3.0	10.2	3.8	1.0	.1	.0		18.1	8.6	16.3	19.2	35.2	.0	33.6	25.0	18.7	15.9	
E	4.0	15.9	5.1	.9	.0	.0		26.1	7.4	24.8	26.2	21.9	.0	24.3	41.1	24.3	27.9	
SE	1.3	5.7	2.3	.1	.0	.0		9.3	8.0	12.3	7.0	13.6	.0	3.3	8.3	7.2	9.4	
S	.6	1.2	.8	.0	.0	.0		1.8	4.8	2.0	.4	3.1	.0	.0	.0	3.3	1.3	
SW	1.1	2.2	.1	.0	.0	.0		3.4	4.6	4.3	3.8	.0	.0	.7	4.8	2.1	3.5	
W	2.3	2.3	.9	.0	.0	.0		4.7	4.2	4.6	4.4	3.1	.0	2.0	1.8	6.1	4.2	
NW	2.0	2.9	.9	.0	.0	.0		5.3	3.3	5.2	3.4	9.4	.0	.7	3.0	5.9	5.1	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	26.0							26.0	.0	24.4	29.1	9.4	.0	26.9	9.5	26.6	27.7	
TOT OBS	771	777	233	34	3	0	1818		5.4	512	268	32	0	38	42	414	312	
TOT PCT	47.4	42.7	12.8	1.9	.2	.0		100.0		100.0	100.0	100.0	.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	3.7	.6	.7	.2	.0		5.4	8.5	3.3	2.3	6.6	5.3
NE	9.1	6.7	3.0	.3	.0		18.1	8.6	17.3	35.2	29.1	17.1
E	13.9	11.2	1.0	.0	.0		26.1	7.4	25.3	21.9	33.1	26.3
SE	5.6	3.0	.7	.1	.0		9.3	8.0	10.3	13.6	5.9	8.5
S	1.5	.3	.0	.0	.0		1.8	4.6	1.4	3.1	.0	2.2
SW	3.0	.9	.0	.0	.0		3.4	4.6	4.1	.0	2.3	2.9
W	4.0	.7	.0	.0	.0		4.7	4.2	4.6	3.1	1.9	3.0
NW	4.4	.7	.2	.0	.0		5.3	3.3	5.3	3.4	1.9	3.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	26.0						26.0	.0	26.0	9.4	18.8	27.2
TOT OBS	1292	432	83	11	0	1818		5.4	780	32	80	926
TOT PCT	71.1	23.8	4.6	.6	.0		100.0		100.0	100.0	100.0	100.0

# NOVEMBER

PERIOD: (PRIMARY) 1969-1976  
(OVER-ALL) 1967-1976

VALDEZ AK  
61.1N 146.3W

TABLE 4

## PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	26.0	17.6	41.8	12.2	2.1	.4	.0	5.4	100.0	780
0600Z	9.4	9.4	59.4	18.8	3.1	.0	.0	7.0	100.0	32
1200Z	18.8	8.8	32.3	20.0	.0	.0	.0	6.3	100.0	80
1800Z	27.2	16.3	42.1	12.5	1.8	.0	.0	5.2	100.0	920
TOT	473	298	777	293	34	3	0	5.4		1818
PCT	26.0	16.4	42.7	12.8	1.9	.2	.0	100.0		

TABLE 5

## PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.9	.0	.7	5.1		6.9
NP	2.5	1.6	5.6	14.4		6.5
E	3.4	2.1	6.1	15.8		6.0
SE	.7	.0	1.7	9.4		6.8
S	.3	.3	.0	.4		5.3
SW	.0	.3	.3	1.4		7.1
W	.3	.0	1.0	1.4		6.6
NW	1.1	.3	2.0	2.7		6.2
VAR	.0	.0	.0	.0		.0
CALM	1.7	.3	2.3	14.4		7.0
TOT OBS	39	15	60	187	301	6.5
TOT PCT	13.0	5.0	19.9	62.1	100.0	

TABLE 6

## PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3999	4999	6499	7999				
N	.7	.3	.0	.0	.3	.0	.0	1.3	.9	1.2	2.5	
NP	1.8	.2	.7	.5	1.0	2.3	.7	3.5	2.0	1.4	9.9	
E	.8	.5	1.2	.8	1.6	2.1	1.6	3.1	4.0	3.0	11.0	
SE	.7	.7	.1	.0	.4	.6	.7	.4	1.4	.4	2.5	
S	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.7	
SW	.0	.3	.7	.1	.2	.0	.0	.0	.3	.0	.7	
W	.0	.3	.0	.2	.6	.2	.2	.3	.0	.9	.9	
NW	.0	.0	.3	.3	.7	.4	.1	.4	.4	.7	2.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.3	.3	1.7	1.7	1.7	.0	.7	1.3	.7	1.3	5.3	
TOT OBS	25	8	14	11	21	17	12	31	29	24	109	301
TOT PCT	8.3	2.7	4.7	3.7	7.0	3.6	4.0	10.3	9.6	8.0	36.2	100.0

TABLE 7

## CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)			
	>10	>5	>2	>1
>6500	16.6	17.6	17.6	17.6
>5000	24.3	27.9	27.9	27.9
>3500	26.6	31.9	31.9	31.9
>2000	29.6	37.2	37.2	37.2
>1000	31.6	43.2	44.3	44.3
>400	31.6	44.3	48.2	48.2
>900	31.6	46.8	52.5	52.5
>150	31.6	46.8	54.5	55.3
>0	31.6	46.8	55.1	57.1
TOTAL	93	141	166	172

TOTAL NUMBER OF OBS: 301

PCT FREQ NM <5/8: 36.2

TABLE 7A

## PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
13.0	7.3	10.6	3.3	2.0	5.0	11.3	4.7	35.2	7.6	301

PERIOD: (PRIMARY) 1969-1976  
(OVER-ALL) 1967-1976

NOVEMBER

VALDEZ, AK  
61.1N 146.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.3	.3	.4	.0	.1	.1	.2	.1	.0	2.9	3.9	
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.3	.4	
	TOT %	.3	.3	.4	.0	.1	.1	.2	.1	.0	2.9	4.3	
1/2<1	PCP	.2	.7	.5	.3	.1	.1	.2	.1	.0	2.8	5.0	
	NO PCP	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.2	.8	.7	.3	.1	.1	.2	.1	.0	2.8	5.3	
1<2	PCP	.2	.3	.6	.2	.0	.1	.3	.3	.0	1.5	3.3	
	NO PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.3	.3	
	TOT %	.2	.3	.6	.2	.0	.1	.3	.3	.0	1.8	3.6	
2<5	PCP	.2	.9	1.1	.2	.1	.6	.6	.5	.0	3.0	7.1	
	NO PCP	.4	.0	.1	.1	.0	.1	.1	.0	.0	.1	.9	
	TOT %	.6	.9	1.2	.3	.1	.7	.6	.5	.0	3.1	8.0	
5<10	PCP	.4	.6	1.5	.4	.3	.3	.2	.2	.0	1.2	5.2	
	NO PCP	.2	1.3	1.7	.4	.0	.4	.3	.4	.0	3.7	8.4	
	TOT %	.6	1.9	3.2	.7	.4	.8	.7	.6	.0	4.9	13.6	
10+	PCP	.1	.1	.3	.2	.0	.1	.1	.1	.0	.7	1.6	
	NO PCP	3.4	13.8	19.8	7.5	1.2	1.6	2.6	3.6	.0	10.0	63.4	
	TOT %	3.5	13.9	20.0	7.8	1.2	1.7	2.7	3.7	.0	10.7	65.0	
TOT OBS													1818
TOT PCT		5.4	18.1	26.1	9.3	1.8	3.4	4.7	5.3	.0	26.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.2	.1	.1	.0	.1	.1	.1	.1	.0	2.9	3.5	
	4-10	.1	.3	.2	.0	.0	.0	.1	.0	.0	.0	.8	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.3	.4	.0	.1	.1	.2	.1	.0	2.9	4.3	
1/2<1	0-3	.2	.4	.4	.1	.0	.1	.1	.0	.0	2.8	4.1	
	4-10	.1	.3	.3	.2	.1	.1	.1	.1	.0	.0	1.2	
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.8	.7	.3	.1	.1	.2	.1	.0	2.8	5.3	
1<2	0-3	.2	.1	.2	.1	.0	.0	.2	.1	.0	1.8	2.5	
	4-10	.0	.2	.5	.1	.0	.1	.0	.2	.0	.0	1.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.3	.6	.2	.0	.1	.2	.3	.0	1.8	3.6	
2<5	0-3	.1	.3	.3	.0	.0	.2	.3	.1	.0	3.1	4.4	
	4-10	.1	.6	.9	.3	.1	.4	.3	.3	.0	.0	3.1	
	11-21	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	22+	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.6	.9	1.2	.3	.1	.7	.6	.5	.0	3.1	8.0	
5<10	0-3	.1	.2	.8	.3	.0	.2	.2	.2	.0	4.9	7.1	
	4-10	.4	1.4	2.0	.4	.3	.3	.3	.4	.0	.0	5.9	
	11-21	.0	.2	.3	.0	.0	.0	.0	.1	.0	.0	.7	
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.6	1.9	3.2	.7	.4	.8	.7	.6	.0	4.9	13.8	
10+	0-3	.8	1.9	2.9	.7	.4	.5	1.3	1.5	.0	10.7	20.8	
	4-10	1.7	7.5	11.9	4.7	.7	1.1	1.3	1.7	.0	.0	30.7	
	11-21	.8	3.5	4.8	2.3	.0	.1	.0	.4	.0	.0	11.9	
	22+	.2	1.0	.3	.1	.0	.0	.0	.0	.0	.0	1.6	
	TOT %	3.5	13.8	20.0	7.8	1.2	1.7	2.7	3.7	.0	10.7	65.0	
TOT OBS													1818
TOT PCT		5.4	18.1	26.1	9.3	1.8	3.4	4.7	5.3	.0	26.0	100.0	

PERIOD: (PRIMARY) 1969-1976  
(OVER-ALL) 1967-1976

# NOVEMBER

VALDEZ, AK  
-1.1N 146.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND  
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	140 299	300 399	400 499	500 599	600 699	700 799	800 899	900 999	1000 1099	1100 1199	1200 1299	1300 1399	1400 1499	TOTAL OBS	NM <5/8 ANY HGT	TOTAL OBS
00003	6.3	4.3	2.2	4.3	7.3	5.4	2.2	4.3	11.8	5.4	53.8	46.2	93				
06009	4.0	.0	.0	4.0	.0	4.0	.0	12.0	12.0	20.0	56.0	44.0	25				
12015	7.7	.0	1.5	3.1	7.7	3.1	7.7	10.9	13.8	12.3	73.8	26.2	65				
18021	11.0	3.4	9.3	3.4	7.6	7.6	4.2	11.0	5.1	5.1	67.8	32.2	118				
TOT	25	8	14	11	21	17	12	31	29	24	192	109	301				
PCT	8.3	2.7	4.7	3.7	7.0	5.6	4.0	10.3	9.6	8.0	63.8	36.2	100.0				

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL OBS
00003	5.6	4.2	5.2	7.8	13.2	63.9	781
06009	3.1	.0	3.1	.0	9.4	86.4	32
12015	2.5	3.8	1.9	2.5	27.3	62.5	86
18021	3.3	6.5	2.9	0.8	19.3	69.6	927
TOT	78	96	66	145	251	1184	1820
PCT	4.3	5.3	3.6	8.0	13.8	65.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	6.3	12.9	23.7	35.3	40.9	93
06009	4.0	4.0	8.0	48.0	44.0	25
12015	7.7	9.2	12.3	61.5	26.2	65
18021	11.0	23.7	29.7	38.1	32.2	118
TOT	25	67	67	130	104	301
PCT	8.3	15.6	22.3	43.2	34.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
49/49	.0	.0	.0	.1	.0	.0	.0	.0	1	.1
40/44	.1	.6	.0	.8	.3	.3	.0	.8	22	2.8
35/39	.5	1.4	1.4	1.5	.9	1.9	1.1	4.5	104	13.3
30/34	.6	.6	2.3	1.7	1.8	1.5	6.6	10.6	202	25.8
25/29	.6	.5	2.6	4.7	4.1	3.3	2.4	2.8	165	21.1
20/24	.4	1.4	4.6	1.7	3.2	5.0	3.3	1.8	166	21.2
15/19	.0	1.0	1.8	2.3	1.7	.9	1.1	.3	73	9.3
10/14	.0	.0	1.3	.0	2.3	.3	.3	.3	90	4.6
5/9	.0	.0	.4	1.0	.0	.0	.1	.1	13	1.7
0/4	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	18	44	112	107	111	103	118	170	783	100.0
PCT	2.3	5.6	14.3	13.7	14.2	13.2	15.1	21.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
.0	.6	1.6	.2	.0	.1	.1	.1	.0	.0
.8	2.3	2.7	.9	.4	1.2	.6	1.3	.0	2.9
1.5	4.5	5.2	1.8	.1	.9	1.6	1.7	.0	8.6
1.9	3.8	5.8	2.4	.2	.1	.9	1.7	.0	4.2
1.1	6.0	6.3	2.3	.1	.8	1.7	1.3	.0	1.5
.1	2.7	5.1	.4	.0	.0	.2	.4	.0	.4
.1	1.3	2.3	.2	.0	.0	.3	.4	.0	.1
.0	.2	1.2	.1	.1	.0	.0	.0	.0	.0
.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
5.5	21.6	30.3	8.5	1.0	3.1	5.3	6.8	.0	17.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	46	44	38	30	15	10	6	28.8	781
06009	34	33	33	24	7	4	4	22.7	32
12015	37	36	35	25	10	6	6	25.1	80
18021	44	41	37	29	13	7	4	27.7	927
TOT	46	41	37	29	14	7	4	28.0	1820

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	3.0	38.0	14.0	12.3	13.7	17.0	66	300		
06009	3.1	21.9	10.8	34.4	12.3	6.4	70	32		
12015	.0	20.0	13.8	25.0	21.3	20.0	75	80		
18021	2.2	34.0	12.4	9.4	15.1	27.0	76	371		
TOT	18	203	111	103	118	170	69	783		

PERIOD: (PRIMARY) 1971-1976  
(TIVER-ALL) 1967-1976

DECEMBER

VALDEZ, AK  
61.1N 146.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SH-R	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THOR LTNG	FOG W0 PCPN	FOG W0 PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.9	.0	.0	.0	19.0	.0	.0	22.3	.0	.0	.0	.0	.0	5.2	76.3
NE	2.0	.0	.7	.0	17.2	.1	.0	20.6	.0	.0	.0	.0	.0	.7	78.7
E	1.1	.0	.4	.0	18.6	.2	.0	19.9	.0	.0	.7	.0	.0	.5	79.0
SE	3.4	.0	.2	.0	12.8	.0	.0	15.7	.0	.0	.8	.0	.0	.0	83.3
S	4.4	.0	1.9	.0	17.7	.0	.0	22.2	.0	.0	2.3	.0	.0	.0	75.3
SW	1.2	.0	.8	.0	16.5	2.4	.0	19.5	.0	.0	2.4	.0	.0	.0	78.0
W	14.0	.0	.0	.0	20.5	.0	.0	29.0	.0	.0	.0	.0	.0	.0	71.0
NW	7.3	.0	.0	.0	15.0	.0	.0	21.5	.0	.0	.0	.0	.0	.0	78.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.1	.2	1.4	.0	41.0	.0	.2	46.5	.0	.0	4.9	.0	.0	.0	48.6
TOT PCT	3.9	.1	.7	.0	25.3	.1	.1	29.0	.0	.0	1.9	.0	.0	.4	68.7
TOT OBS:	1746														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GHT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SH-R	DRFL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THOR LTNG	FGG W0 PCPN	FGG W0 PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	4.9	.0	.8	.0	24.9	.3	.0	29.3	.0	.0	2.3	.0	.0	.4	68.0
00009	4.4	.0	.0	.0	20.0	.0	.0	24.4	.0	.0	4.4	.0	.0	.0	71.1
12015	5.9	.0	.0	.0	38.1	.0	.0	41.5	.0	.0	2.5	.0	.0	.0	55.9
18021	2.7	.1	.8	.0	24.2	.0	.1	27.2	.0	.0	1.4	.0	.0	.5	70.9
TOT PCT	3.9	.1	.7	.0	25.3	.1	.1	29.0	.0	.0	1.9	.0	.0	.4	68.7
TOT OBS:	1746														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21
N	1.7	2.7	1.1	.3	.0	.0	.0	5.4	7.8	4.8	6.2	6.1	.0	6.6	4.4	6.6	4.7
NE	2.0	9.4	3.1	.1	.0	.0	.0	15.8	7.3	17.1	17.4	18.3	.0	17.7	18.7	19.2	13.1
E	2.5	15.2	5.6	.2	.0	.0	.0	23.4	8.2	23.8	22.0	39.0	.0	24.1	27.8	21.3	23.8
SE	1.4	4.2	2.7	.6	.0	.0	.0	8.8	9.5	9.7	8.7	9.4	.0	5.9	4.8	8.2	9.3
S	.7	1.3	.2	.0	.0	.0	.0	2.3	5.5	2.3	2.3	.0	.0	5.6	3.2	2.6	2.0
SW	1.2	1.1	.1	.0	.0	.0	.0	2.3	4.2	2.6	2.2	.0	.0	.4	2.7	2.7	.0
W	1.4	2.5	.1	.0	.0	.0	.0	4.1	4.4	2.3	4.0	.0	.0	1.8	2.4	6.2	5.0
NW	2.0	2.4	.9	.2	.0	.0	.0	5.1	6.0	5.3	7.5	4.4	.0	7.7	6.7	2.9	5.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	32.8							32.8	.0	32.1	29.8	26.7	.0	32.7	31.7	34.4	34.4
TOT OBS	1746	673	235	24	0	0	1746		5.0	476	255	45	0	55	63	381	471
TOT PCT	46.6	38.5	13.5	4.4	.0	.0	100.0			100.0	100.0	100.0	.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GHT)			
	0-6	7-16	17-27	28-40					00	03	06	18
N	3.4	1.3	.7	.0	.0	.0	5.4	7.8	5.3	6.1	5.3	5.5
NE	8.9	6.1	.7	.1	.0	.0	15.8	7.3	17.2	18.3	18.2	14.1
E	10.2	12.2	1.1	.0	.0	.0	23.4	8.2	23.2	23.0	26.1	22.7
SE	4.2	3.3	1.3	.1	.0	.0	8.8	9.5	9.4	9.4	5.3	8.6
S	1.8	.4	.1	.0	.0	.0	2.3	5.5	2.3	.0	3.4	2.2
SW	2.1	.2	.0	.0	.0	.0	2.3	4.2	2.5	.0	.2	2.7
W	3.5	.5	.0	.0	.0	.0	4.1	4.4	2.9	.0	2.1	5.5
NW	3.9	.8	.4	.0	.0	.0	5.1	6.0	6.1	4.4	7.2	4.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	32.8						32.8	.0	31.3	28.7	32.2	34.4
TOT OBS	1235	435	74	2	0	1746		5.0	731	45	118	852
TOT PCT	70.7	24.9	4.2	.1	.0	100.0			100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1971-1976  
(OVER-ALL) 1967-1976

TABLE 4

VALDEZ, AK  
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PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47				
0000	91.3	14.1	40.6	12.4	1.5	.0	.0	5.0	100.0	731
0600	26.7	13.3	37.8	22.2	.0	.0	.0	6.3	100.0	45
1200	32.2	11.0	33.1	23.7	.0	.0	.0	5.8	100.0	118
1800	34.4	14.1	37.6	12.4	1.5	.0	.0	4.9	100.0	852
TOT	272	242	673	235	24	0	0	5.0		1746
PCT	42.8	13.9	38.5	13.5	1.4	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	3.9		8.0
NE	1.4	.7	1.4	13.7		7.0
E	2.1	2.4	3.9	20.6		6.8
SE	.6	.1	1.1	5.5		7.0
S	.0	.0	.2	2.1		6.4
SW	.1	.0	.1	.8		7.3
W	.0	.0	.0	1.8		8.0
NW	.3	.0	1.4	4.1		7.0
VAR	.0	.0	.0	.0		.0
CALM	1.4	.0	1.1	30.3		7.6
YDT OBS	22	11	29	288	350	7.2
YDT PCT	6.3	3.1	8.3	82.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)  
AND OCCURRENCE OF NM <3/8 BY WIND DIRECTION

CEILING (FT)	000 149	150 299	300 599	600 999	1000 1999	2000 3999	3500 4999	5000 6499	6500 7999	8000+	NM <3/8 ANY MGT	TOTAL OBS
N	1.8	.0	.2	.3	.0	.6	.0	.3	.2	.5	.0	
NE	1.7	.0	.9	.6	3.3	.7	1.8	1.5	.6	1.4	4.2	
E	5.6	.0	.7	2.0	3.6	1.1	1.9	2.4	.9	.9	8.9	
SE	.4	.3	.4	.4	1.7	.3	.6	.2	.6	.3	2.1	
S	.3	.0	.0	.0	.0	.5	.0	.5	.0	.0	1.3	
SW	.0	.3	.4	.0	.0	.0	.2	.0	.3	.0	.2	
W	.0	.3	.3	.0	.0	.1	.0	.0	.0	.0	.0	
NW	1.1	.3	.6	.0	.9	.9	.1	.0	.3	.6	1.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	10.3	1.7	4.0	1.7	5.7	.9	2.3	1.7	.6	.9	3.1	
YDT OBS	76	10	27	18	53	17	24	23	12	16	74	350
YDT PCT	21.7	2.9	7.7	5.1	15.1	4.9	6.9	6.6	3.4	4.6	21.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FT)	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	6.6	8.0	8.0	8.0	8.0	8.0	8.0	8.0
= OR >5000	11.1	14.6	14.6	14.6	14.6	14.6	14.6	14.6
= OR >3500	14.6	21.1	21.1	21.4	21.4	21.4	21.4	21.4
= OR >2000	15.4	24.3	26.0	26.3	26.3	26.3	26.3	26.3
= OR >1000	15.7	31.1	40.9	41.4	41.4	41.4	41.4	41.4
= OR >600	16.0	32.9	44.6	46.3	46.6	46.6	46.6	46.6
= OR >300	16.0	36.0	52.0	54.0	54.3	54.3	54.3	54.3
= OR >150	16.0	37.4	54.3	56.9	57.1	57.1	57.1	57.1
= OR >0	16.0	37.4	59.1	65.4	72.6	78.0	78.9	78.9
TOTAL	96	191	207	229	254	273	276	276

TOTAL NUMBER OF OBS: 350

PCT FREQ NM <5/8: 21.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
9.7	9.1	9.1	1.7	1.4	3.4	4.6	.3	30.0	20.6	350

DECEMBER

PERIOD: (PRIMARY) 1971-1976  
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	.7	.5	.2	.6	.1	.6	.2	.0	3.7	5.7	
	NO PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.6	.7	
	TOT %	.2	.7	.6	.2	.6	.1	.6	.2	.0	4.3	6.4	
1/2<1	PCP	.2	.7	.6	.1	.0	.1	.1	.1	.0	4.1	6.0	
	NO PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2	.3	
	TOT %	.2	.7	.6	.1	.1	.1	.1	.1	.0	4.3	6.3	
1<2	PCP	.2	.4	.7	.3	.1	.1	.3	.1	.0	2.7	4.9	
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	TOT %	.2	.5	.7	.3	.1	.1	.3	.1	.0	2.9	5.1	
2<5	PCP	.4	1.0	1.6	.5	.3	.1	.4	.3	.0	3.4	8.2	
	NO PCP	.2	.1	.2	.1	.0	.0	.0	.0	.0	.6	1.0	
	TOT %	.6	1.1	1.8	.6	.3	.1	.4	.3	.0	4.0	9.2	
5<10	PCP	.1	.3	1.0	.7	.0	.1	.3	.3	.0	1.1	3.4	
	NO PCP	.4	1.5	2.4	1.0	.3	.3	.3	.7	.0	5.1	11.9	
	TOT %	.6	1.8	3.3	1.2	.3	.3	.6	1.0	.0	6.2	15.3	
10+	PCP	.1	.8	.3	.0	.1	.1	.1	.1	.0	.1	.7	
	NO PCP	3.6	10.9	16.1	6.4	1.4	1.6	2.5	3.3	.0	10.8	36.9	
	TOT %	3.7	11.0	16.4	6.4	1.5	1.7	2.6	3.4	.0	11.0	37.6	
TOT OBS													1746
TOT PCT		5.4	15.8	23.4	8.8	2.3	2.3	4.1	5.1	.0	32.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.2	.3	.1	.4	.*	.0	.0	.0	4.3	3.0	
	4-10	.1	.5	.2	.1	.0	.1	.*	.2	.0		1.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.7	.6	.2	.4	.1	.*	.2	.0	4.3	6.4	
1/2<1	0-3	.2	.3	.2	.1	.0	.1	.1	.1	.0	4.4	5.3	
	4-10	.*	.3	.4	.1	.1	.0	.0	.0	.0		.9	
	11-21	.0	.*	.*	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.7	.6	.1	.1	.1	.1	.1	.0	4.4	6.3	
1<2	0-3	.1	.2	.2	.1	.1	.0	.3	.1	.0	2.9	4.0	
	4-10	.1	.2	.4	.2	.0	.1	.1	.0	.0		.9	
	11-21	.0	.1	.1	.0	.0	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.5	.7	.3	.1	.1	.3	.1	.0	2.9	5.1	
2<5	0-3	.3	.2	.3	.3	.2	.1	.2	.1	.0	4.0	5.6	
	4-10	.2	.7	1.3	.2	.2	.*	.2	.2	.0		2.9	
	11-21	.2	.2	.2	.1	.0	.0	.*	.*	.0		.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.6	1.1	1.8	.6	.3	.1	.4	.3	.0	4.0	9.2	
5<10	0-3	.1	.5	.6	.1	.2	.2	.2	.6	.0	6.2	8.6	
	4-10	.3	1.1	2.2	.9	.1	.1	.4	.4	.0		5.5	
	11-21	.2	.3	.5	.2	.0	.0	.0	.0	.0		1.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.1	.0		.1	
	TOT %	.6	1.8	3.3	1.2	.3	.3	.6	1.0	.0	6.2	15.3	
10+	0-3	1.0	1.4	1.0	.8	.3	.8	.7	1.1	.0	11.0	18.1	
	4-10	1.5	6.8	10.5	2.6	1.0	.8	1.8	1.6	.0		26.9	
	11-21	.8	2.3	4.7	2.4	.2	.1	.1	.3	.0		11.3	
	22+	.3	.1	.2	.6	.0	.0	.0	.1	.0		1.3	
	TOT %	3.7	11.0	16.4	6.4	1.5	1.7	2.6	3.4	.0	11.0	37.6	
TOT OBS													1746
TOT PCT		5.4	15.8	23.4	8.8	2.3	2.3	4.1	5.1	.0	32.8	100.0	

PERIOD: (PRIMARY) 1971-1976  
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND  
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000	149	299	599	999	1999	3499	4999	6499	7999		75.2	24.8	109
0600	20.2	3.7	10.1	3.7	13.8	7.3	4.6	3.7	3.7	4.6	82.4	17.6	94
1200	23.5	5.9	2.9	.0	17.6	.0	14.7	8.8	2.9	5.9	84.2	15.8	95
1800	22.1	.0	4.2	7.4	20.0	3.2	8.4	9.5	4.2	5.3	76.8	23.2	112
TOT	76	10	37	18	53	17	24	23	12	16	276	74	350
PCT	21.7	2.9	7.7	5.1	15.1	4.9	6.9	6.6	3.4	4.6	78.9	21.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000	9.6	8.5	4.9	9.0	14.5	57.5	731
0600	6.7	2.2	4.4	13.3	24.4	48.9	45
1200	8.5	4.2	3.4	22.0	24.0	37.3	118
1800	6.8	4.9	5.5	7.4	14.3	61.0	852
TOT	112	110	89	161	268	1006	1746
PCT	6.4	6.3	5.1	9.2	15.3	57.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
0000	20.2	34.9	49.5	30.3	20.2	109
0600	23.5	32.4	41.2	44.1	14.7	94
1200	22.1	28.4	49.5	35.8	14.7	95
1800	22.3	36.6	53.6	24.1	22.3	112
TOT	76	117	175	109	66	350
PCT	21.7	33.4	50.0	31.1	18.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
35/39	.0	.0	.2	.2	.5	1.3	.6	1.0	32	3.7
30/34	.0	.0	.8	1.0	1.4	2.3	11.5	15.8	285	32.8
25/29	.0	.0	.6	.9	2.5	3.2	5.1	9.9	193	22.2
20/24	.0	.1	.1	.7	3.5	6.2	4.3	3.0	155	17.9
15/19	.0	.3	.7	.9	.9	1.4	3.0	1.2	73	8.4
10/14	.0	.0	2.3	.0	2.8	.2	1.6	1.0	69	7.9
5/9	.0	.3	.2	1.8	.0	.2	.1	.0	24	2.8
0/4	.0	.0	1.3	.0	.1	.5	.0	.1	17	2.0
-1/-4	.0	.6	.0	.0	1.4	.3	.0	.0	20	2.3
TOTAL	0	12	54	49	112	136	227	278	848	100.0
PCT	.0	1.4	6.2	5.6	12.9	15.7	26.2	32.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.8	1.4	.4	.0	.8	.4	.2	.0	.2
1.3	4.7	5.8	1.4	.5	.5	1.2	1.6	.0	15.8
.2	3.6	5.2	1.5	.7	.4	.5	1.7	.0	8.3
.6	2.9	6.3	1.9	1.1	.8	.3	1.1	.0	3.1
.8	.9	2.1	1.0	.2	.5	.6	1.0	.0	1.3
.3	1.8	3.6	.4	.1	.0	.2	.6	.0	.9
.0	.3	1.1	.6	.1	.1	.0	.3	.0	.1
.0	.7	1.2	.8	.0	.0	.0	.0	.0	.0
.1	.6	1.4	.2	.0	.0	.0	.0	.0	.0
3.5	16.5	28.1	7.1	2.8	2.3	3.4	6.6	.0	29.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	42	34	34	24	7	0	-3	23.1
0600	39	34	34	29	-1	-1	-1	22.7
1200	37	36	35	27	-1	-4	-4	23.6
1800	42	36	34	23	6	0	-4	22.1
TOT	42	37	34	24	5	-1	-4	22.7

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	14.4	10.5	16.5	26.0	32.6	80	334		
0600	.0	26.7	15.6	6.7	22.2	28.9	75	45		
1200	.0	10.2	13.6	13.6	28.6	33.9	82	118		
1800	.0	11.6	14.6	16.7	25.9	31.3	80	371		
TOT	0	115	112	136	227	278	80	868		

PERIOD: (PRIMARY) 1966-1977  
(OVER-ALL) 1967-1977

ANNUAL

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHR	DRZL	PRZG PCPN	SNOW	OTHER PRZG PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	14.2	5.4	.3	.0	9.0	.2	.0	28.4	.0	.0	.9	.0	.0	1.7	69.0
NE	12.3	1.2	1.0	.0	8.0	*	*	21.5	.0	.2	1.2	.0	.0	.2	77.1
E	15.5	2.0	1.2	.0	8.9	.1	.0	26.5	.0	.0	1.8	.0	.0	.1	71.8
SE	12.7	1.3	.9	.0	6.3	.0	.0	20.9	.0	.0	1.8	.0	.2	*	77.0
S	15.7	1.4	1.2	.0	8.3	.0	.0	23.0	.0	.0	1.5	.0	.0	.0	73.5
SW	14.2	1.4	.9	.0	8.5	.3	.0	23.6	.0	.0	1.7	.0	.2	.0	74.5
W	15.9	2.1	1.3	.0	10.7	.1	.0	27.7	.0	*	1.0	.0	.1	.0	71.2
NW	14.9	3.4	.8	.0	9.0	.2	.0	26.7	.0	.0	1.3	.0	.1	.3	71.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	18.2	.9	2.6	*	21.2	.1	.1	40.2	.0	*	3.3	.0	.2	.0	56.1
TOT PCT	13.4	1.5	1.3	*	12.0	.1	*	26.7	.0	*	1.7	.0	.1	.2	71.3
TOT OBS:	22612														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SMR	DRZL	PRZG PCPN	SNOW	OTHER PRZG PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	14.0	1.8	1.0	.0	11.7	.1	*	27.0	.0	*	.9	.0	.2	.2	71.8
06009	6.1	1.7	2.0	.0	10.7	.2	.0	19.1	.0	.0	1.4	.0	.0	.0	62.8
12015	13.4	1.2	1.6	.1	13.0	.0	.0	28.3	.0	.1	4.0	.0	.0	.2	67.5
18021	13.0	1.3	1.4	.0	12.0	.1	*	28.3	.0	*	2.0	.0	.1	.2	71.4
TOT PCT OBS: 22619	13.4	1.5	1.3	*	12.0	.1	*	26.7	.0	*	1.7	.0	.1	.2	71.3

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.1	1.5	.7	.2	*	.0		3.4	6.5		2.9	3.1	3.9	6.6	5.0	4.1	4.2	3.1
NE	1.9	3.0	2.3	.3	*	.0		9.5	7.2		8.2	9.0	14.9	14.9	14.3	13.2	10.9	8.4
E	2.4	8.0	3.1	.2	*	.0		13.7	6.8		12.3	13.2	16.4	10.4	15.0	17.1	15.0	13.4
SE	2.4	4.0	1.6	.1	.0	.0		8.1	6.5		7.7	6.7	5.0	4.7	5.4	6.2	9.4	8.6
S	2.5	3.4	.1	*	.0	.0		6.0	4.4		5.4	3.8	2.0	.0	2.0	3.7	8.2	6.3
SW	3.0	14.1	.3	*	.0	.0		17.3	5.0		23.2	15.5	4.2	2.0	2.7	3.7	10.7	22.6
W	2.3	9.8	1.5	*	.0	.0		13.7	5.6		18.9	22.5	18.3	2.5	3.1	5.9	7.9	12.5
NW	1.8	3.0	.5	.1	*	.0		5.4	5.8		5.3	6.7	11.6	3.9	4.1	5.7	4.9	4.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	22.9							22.9	.0		16.0	19.5	23.7	55.0	48.4	40.4	28.8	20.2
TOT OBS							22621			5.0	6080	2791	313	108	483	1000	5409	6285
TOT PCT	40.2	48.8	10.1	.8	*	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	03	06	12	18
N	2.2	.8	.4	*	.0			3.4	6.5		3.0	4.3	4.3	3.6	
NE	5.0	3.7	.8	.1	.0			9.5	7.2		8.2	15.9	13.4	9.5	
E	7.0	8.0	.8	*	.0			13.7	6.8		12.3	17.2	16.5	14.2	
SE	5.3	2.3	.3	*	.0			8.1	6.5		7.4	5.4	3.9	9.1	
S	5.4	.5	*	*	.0			6.0	4.4		4.9	1.8	3.3	7.2	
SW	12.3	4.8	*	*	.0			17.3	5.0		21.0	3.9	3.3	17.0	
W	7.8	5.8	.1	.0	.0			13.7	5.6		19.9	15.1	5.3	10.3	
NW	3.9	1.2	.2	*	.0			5.4	5.8		5.7	10.3	5.2	4.9	
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
CALM	22.9							22.9	.0		17.1	26.1	42.9	24.1	
TOT OBS						22621				5.0	8891	818	1483	11689	
TOT PCT	72.0	25.1	2.8	.1	.0			100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1968-1977  
(OVER-ALL) 1967-1977

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-23	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
01003	17.1	14.6	55.4	11.9	.9	*	.0	5.8	100.0	8831
04009	26.1	19.7	43.3	10.2	.7	.0	.0	4.4	100.0	818
12015	42.9	19.9	29.1	7.8	.5	.0	.0	3.4	100.0	1483
19021	74.1	18.7	47.0	9.3	.9	*	.0	4.8	100.0	11689
TOT								5.0		22621
PCT	27.6	18.2	43.7	9.8	.7	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)  
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.4	.3	.5	2.7		6.4
NE	1.2	.6	1.6	8.0		6.9
E	1.8	.7	1.9	9.4		6.8
SE	.4	.1	.8	3.6		6.8
S	.8	.2	.9	5.1		6.7
SW	2.5	.9	2.5	9.9		6.8
W	.8	.3	1.5	6.3		7.0
NW	.7	.1	.9	4.1		6.7
VAR	.0	.0	.0	.0		.0
CALM	1.8	.9	2.4	23.4		7.2
TOT OBS					3837	6.8
TOT PCT	10.4	4.1	12.9	72.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)  
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.4	.1	.1	.2	.4	.1	.3	.4	.3	.3	1.4	
NE	1.2	.2	.4	.3	1.1	.6	.9	1.1	.8	.7	4.1	
E	1.4	.2	.5	.8	1.3	1.1	1.1	1.0	.8	.7	5.1	
SE	.2	.3	.3	.2	.6	.4	.5	.3	.3	.2	1.7	
S	.5	.6	.8	.3	1.0	.8	.6	.7	.2	.1	2.4	
SW	.4	.6	1.3	.7	1.6	1.4	.6	.5	.6	.6	7.4	
W	.4	.2	.8	.4	1.5	1.2	.5	.2	.3	.2	2.9	
NW	.3	.1	.5	.2	.8	.7	.4	.3	.2	.3	2.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.9	1.6	3.2	1.4	3.3	1.4	1.8	1.6	1.1	1.3	6.8	
TOT OBS												3837
TOT PCT	9.6	3.8	8.0	4.5	11.5	7.5	6.4	5.7	4.6	4.5	34.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	8.2	9.1	9.1	9.1	9.1	9.1	9.1	9.1
= OR >5000	12.8	14.6	14.7	14.7	14.7	14.7	14.7	14.7
= OR >3500	17.0	20.9	21.0	21.1	21.1	21.2	21.2	21.2
= OR >2000	21.7	27.8	28.5	28.6	28.7	28.7	28.7	28.7
= OR >1000	24.9	36.5	39.6	40.1	40.2	40.2	40.2	40.2
= OR >600	25.5	39.2	43.9	44.4	44.6	44.7	44.7	44.7
= OR >300	26.1	43.6	51.3	52.2	52.3	52.3	52.6	52.6
= OR >150	26.3	45.4	54.7	55.8	56.3	56.4	56.4	56.4
= OR >0	26.4	45.7	56.7	59.6	64.0	65.6	66.0	66.0

TOTAL NUMBER OF OBS: 3837

PCT FREQ NM <5/8: 34.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL OBS
10.4	10.2	8.2	3.2	1.5	3.8	7.5	2.7	43.4	8.6	3837

PERIOD: (PRIMARY) 1964-1977  
(COVER-ALL) 1967-1977

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.2	.2	.1	.0	.1	.1	.1	.0	1.4	2.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.4	
	TOT %	.1	.2	.2	.1	.0	.2	.1	.1	.0	1.7	2.7	
1/2<1	PCP	.1	.3	.4	.2	.1	.2	.2	.1	.0	2.0	3.7	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	TOT %	.1	.3	.4	.2	.1	.2	.2	.1	.0	2.1	3.9	
1<2	PCP	.1	.2	.3	.2	.1	.2	.2	.1	.0	1.2	2.6	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	TOT %	.1	.2	.3	.2	.1	.2	.2	.1	.0	1.2	2.8	
2<5	PCP	.2	.5	.8	.5	.5	.9	.9	.4	.0	2.5	7.0	
	NO PCP	.1	.0	.1	.1	.0	.2	.1	.1	.0	.3	1.0	
	TOT %	.3	.5	.8	.5	.5	1.1	.9	.5	.0	2.8	8.0	
5<10	PCP	.2	.6	.8	.6	.6	1.2	1.3	.6	.0	2.0	7.8	
	NO PCP	.5	.8	1.3	.7	.6	1.3	1.3	.6	.0	2.5	9.4	
	TOT %	.5	1.2	2.1	1.1	1.2	2.5	2.6	1.2	.0	4.5	17.2	
10+	PCP	.1	.1	.3	.2	.3	.9	.7	.2	.0	.7	3.4	
	NO PCP	2.3	6.9	9.4	5.8	3.8	12.1	8.7	3.2	.0	9.8	62.0	
	TOT %	2.4	7.0	9.7	6.0	4.1	13.0	9.4	3.4	.0	10.5	65.4	
TOT OBS		22619											
TOT PCT		3.4	9.5	13.7	8.1	6.0	17.3	13.7	5.4	.0	22.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.1	.1	.1	.0	.1	.0	.0	.0	1.7	2.1	
	4-10	.0	.1	.2	.0	.0	.1	.1	.0	.0	.0	.6	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.2	.2	.1	.0	.2	.1	.1	.0	1.7	2.7	
1/2<1	0-3	.1	.1	.2	.1	.1	.1	.1	.0	.0	2.1	2.9	
	4-10	.0	.2	.3	.1	.0	.1	.1	.1	.0	.0	.9	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.3	.3	.2	.1	.3	.2	.1	.0	2.1	3.9	
1<2	0-3	.0	.1	.1	.1	.1	.1	.1	.1	.0	1.2	2.0	
	4-10	.0	.1	.2	.1	.0	.2	.1	.1	.0	.0	.8	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.2	.4	.2	.1	.3	.2	.1	.0	1.2	2.8	
2<5	0-3	.1	.2	.2	.3	.2	.3	.3	.2	.0	2.8	4.8	
	4-10	.1	.3	.6	.3	.2	.7	.6	.2	.0	.0	2.9	
	11-21	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.3	.5	.8	.5	.4	1.1	.9	.5	.0	2.8	8.0	
5<10	0-3	.2	.4	.6	.3	.7	.6	.5	.5	.0	4.5	8.3	
	4-10	.2	.7	1.2	.6	.5	1.9	2.0	.6	.0	.0	7.7	
	11-21	.1	.1	.3	.1	.0	.0	.3	.1	.0	.0	.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.5	1.2	2.1	1.1	1.2	2.5	2.8	1.2	.0	4.5	17.2	
10+	0-3	.6	1.0	1.2	1.4	1.4	1.7	1.3	1.0	.0	10.5	20.0	
	4-10	1.1	3.6	5.6	3.0	2.6	11.1	6.9	2.0	.0	.0	35.9	
	11-21	.6	2.2	2.7	1.5	.1	.2	1.2	.4	.0	.0	8.9	
	22+	.1	.3	.2	.1	.0	.0	.0	.0	.0	.0	.7	
	TOT %	2.4	7.0	9.7	6.0	4.1	13.0	9.4	3.4	.0	10.5	65.4	
TOT OBS		22620											
TOT PCT		3.4	9.5	13.7	8.1	6.0	17.3	13.7	5.4	.0	22.9	100.0	

PERIOD: (PRIMARY) 1965-1977  
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND  
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	0/0	1/0	3/0	6/0	10/0	20/0	35/0	50/0	65/0	80/0+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	8.5	2.6	7.7	4.9	10.3	9.8	5.8	4.1	4.2	3.0	60.8	39.2	1154
06009	10.3	1.6	2.3	2.3	6.8	4.1	7.9	4.6	3.8	8.6	52.4	22.4	362
12015	10.5	3.4	7.3	4.5	13.1	7.2	7.8	8.9	5.8	6.5	74.8	25.2	941
18021	9.2	5.0	9.2	4.3	11.6	6.3	4.9	4.8	3.8	4.1	63.3	36.7	1380
TOT PCT	9.6	3.8	8.0	4.5	11.5	7.5	6.4	5.7	4.6	4.5	66.0	34.0	3837 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	2.4	3.8	2.7	7.2	15.8	68.2	8833
06009	2.1	2.8	2.0	8.3	20.5	47.6	618
12015	3.2	3.8	3.2	11.3	28.9	49.6	1483
18021	2.9	4.0	2.9	7.9	16.2	66.0	11692
TOT PCT	2.7	3.9	2.8	8.0	17.2	65.4	22626 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR  
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	8.5	19.1	29.4	34.3	36.2	1154
06009	10.3	14.2	20.3	33.1	21.3	362
12015	10.5	22.0	32.9	43.9	23.2	941
18021	9.2	24.0	32.7	32.0	35.3	1380
TOT PCT	9.6	21.8	31.7	36.5	31.9	3837 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70/74	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.6	0.0
65/69	0.0	0.2	0.3	0.4	0.4	0.0	0.0	0.0	1.6	0.0
60/64	0.0	0.1	0.3	0.8	2.2	0.7	0.0	0.0	4.1	0.0
55/59	0.2	0.1	0.3	0.7	1.7	3.4	2.1	0.3	8.7	0.0
50/54	0.2	0.2	0.2	0.7	1.7	1.6	3.8	2.9	11.4	0.0
45/49	0.1	0.1	0.2	0.6	1.2	1.8	2.6	5.1	11.6	0.0
40/44	0.1	0.3	0.4	0.9	1.3	1.4	1.8	3.0	8.6	0.0
35/39	0.2	0.4	0.6	1.0	0.7	1.2	1.7	5.3	11.1	0.0
30/34	0.1	0.2	0.7	1.1	1.1	1.1	4.4	7.2	16.0	0.0
25/29	0.1	0.1	0.5	1.3	1.3	1.3	1.9	2.5	8.9	0.0
20/24	0.0	0.2	0.8	0.4	0.9	1.7	1.7	0.9	6.7	0.0
15/19	0.0	0.2	0.4	1.1	0.9	0.6	1.4	0.5	5.1	0.0
10/14	0.0	0.0	0.7	0.0	1.3	0.2	0.7	0.3	3.1	0.0
5/9	0.0	0.0	0.1	0.8	0.0	0.4	0.2	0.0	1.6	0.0
0/4	0.0	0.0	0.1	0.0	0.0	0.3	0.0	0.1	0.6	0.0
-1/-4	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.0
-5/-9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL PCT	0.9	2.2	6.1	10.0	14.9	15.7	22.1	28.1	9436 100.0	

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
00003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
06009	0.0	0.0	0.0	0.0	0.1	0.4	0.1	0.0	0.0	0.0
12015	0.0	0.0	0.0	0.1	0.2	0.7	0.5	0.1	0.0	0.0
18021	0.0	0.0	0.1	0.2	0.4	1.4	1.6	0.3	0.0	0.0
TOT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	83	56	51	40	29	24	-15	39.4	8833
06009	65	39	37	31	21	18	-1	33.4	617
12015	57	44	42	36	24	20	-4	34.2	1483
18021	80	53	48	34	24	20	-17	38.1	11692
TOT	83	56	49	39	26	21	-17	38.9	22626

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	1.1	24.3	19.1	16.8	19.0	19.7	72	3192		
06009	0.3	10.3	10.5	17.9	23.4	21.0	79	617		
12015	0.1	7.3	7.0	11.8	26.1	47.7	84	1368		
18021	1.1	18.5	15.1	15.3	22.4	27.8	73	4262		
TOT	74	1797	1454	1471	2100	2540	76	9436		

TABLE 21  
PRESSURE (MB)

MO	AVERAGE BY HOUR (GMT)										TOTAL OBS
	0000	0300	0600	0900	1200	1500	1800	2100	MEAN		
JAN	1011	1011	1008		1007	1008	1010	1010	1010		949
FEB	1009	1002	1004		1004	1002	1004	1004	1003		931
MAR	1009	1009	1009	1008	1006	1008	1009	1009	1008		1017
APR	1010	1010	1010	1010	1010	1010	1011	1011	1010		770
MAY	1012	1013	1013	1011	1011	1012	1012	1012	1012		896
JUN	1014	1014	1014	1014	1015	1015	1014	1014	1014		887
JUL	1015	1016	1014	1011	1014	1014	1016	1016	1015		615
AUG	1017	1017	1021		1013	1015	1017	1017	1017		498
SEP	1013	1014			1004	1011	1013	1013	1013		440
OCT	1004	1002			1008	1005	1003	1003	1004		766
NOV	1009	1010	1003		1005	1006	1006	1007	1007		783
DEC	1001	1003	1003		1004	1003	1001	1002	1002		868
ANN	1010	1010	1010	1011	1008	1009	1010	1010	1009		9438
OBS	2112	1080	914	108	489	882	2079	2189			

	PERCENTILES									
MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX	
JAN	971	977	984	1001	1011	1019	1029	1049	1052	
FEB	966	969	978	998	1003	1011	1029	1038	1043	
MAR	980	982	988	998	1010	1019	1026	1032	1038	
APR	980	989	997	1005	1011	1014	1023	1029	1033	
MAY	989	991	997	1006	1012	1018	1024	1026	1030	
JUN	997	998	1004	1010	1015	1019	1024	1028	1028	
JUL	1003	1004	1006	1010	1015	1019	1026	1028	1030	
AUG	997	999	1003	1012	1018	1021	1028	1030	1031	
SEP	979	991	998	1008	1014	1018	1023	1023	1026	
OCT	968	975	986	997	1003	1011	1020	1026	1028	
NOV	971	974	984	996	1006	1018	1028	1041	1042	
DEC	971	977	984	994	1000	1009	1023	1040	1045	

## JANUARY

PERIOD: (PRIMARY) 1966-1974  
(OVER-ALL) 1969-1974CAPE HINCHINBROOK, AK  
60.2N 146.7W

TABLE 1

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							N7 SIG WEA
	RAIN	RAIN SMR	ORZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY RLWG DUST SNOW	
N	1.8	.0	.0	.0	9.0	.0	.0	10.3	.0	.0	.0	.0	.0	.0	89.8
NE	7.2	.0	.2	.0	26.8	.2	.0	33.5	.0	.2	3.0	.0	.0	.4	63.1
E	10.0	.0	.0	.0	30.1	.8	.0	40.8	.0	.0	6.3	.0	.0	.0	52.9
SE	17.3	1.6	3.3	.0	11.4	.0	.0	33.7	.0	.0	.4	.0	.0	1.6	64.2
S	6.1	.0	.0	.0	13.6	.0	.0	19.7	.0	.0	.0	.0	.0	.0	80.3
SW	.0	.0	.0	.0	30.2	.0	.0	30.2	.0	.0	.0	.0	.0	.0	89.8
W	.0	.0	.0	.0	14.3	.0	.0	14.3	.0	.0	.0	.0	.0	.0	84.8
NW	.4	.0	.0	.0	7.2	.0	.0	7.6	.0	.0	.4	.0	.0	.0	92.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	10.1	.0	.0	10.1	.0	.0	3.0	.0	.0	.0	86.9
TOT PCT	4.6	.1	.2	.0	17.8	.1	.0	22.4	.0	.1	1.9	.0	.0	.3	75.5
TOT OBS:	1447														

TABLE 2

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							N7 SIG WEA
	RAIN	RAIN SMR	ORZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY RLWG DUST SNOW	
00003	4.6	.0	.0	.0	16.4	.3	.0	21.0	.0	.0	1.3	.0	.0	.3	77.4
06009	9.8	.0	.0	.0	13.0	.8	.0	23.6	.0	.0	.0	.0	.0	.8	75.6
12013	3.4	.2	.6	.0	18.3	.0	.0	22.0	.0	.0	1.3	.0	.0	.4	75.5
18021	4.3	.0	.0	.0	19.1	.0	.0	22.7	.0	.0	2.9	.0	.0	.0	74.4
TOT PCT	4.6	.1	.2	.0	17.7	.1	.0	22.4	.0	.1	1.9	.0	.0	.3	75.5
TOT OBS:	1448														

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							40+ TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	49+				00 09	03 12	06 15	09 21	12 18	15 21	18 21
N	.9	7.9	4.6	.4	.0	.0	.0	13.8	9.9	10.4	5.8	17.7	4.9	14.5	12.2	17.1	14.2
NE	2.5	13.1	13.0	5.2	.6	.0	.0	34.5	13.2	29.4	26.7	34.0	9.7	38.4	39.8	37.9	32.4
E	.8	3.3	7.6	1.0	.3	.0	.0	8.8	12.9	10.2	13.3	6.3	16.1	7.7	8.3	8.1	9.3
SE	.7	1.1	1.7	.7	.1	.0	.0	4.3	13.6	5.4	4.2	4.3	7.3	3.9	4.6	3.5	3.4
S	.2	1.2	1.1	.1	.0	.0	.0	2.5	10.6	2.5	5.0	2.2	2.4	1.6	2.4	2.1	3.7
SW	.3	1.0	.6	.0	.0	.0	.0	1.8	8.0	2.1	4.2	3.5	12.9	1.5	1.9	.5	1.4
W	.3	3.2	3.4	1.2	.1	.0	.0	8.2	13.2	10.9	3.3	21.5	.0	8.0	2.0	7.5	4.2
NW	1.5	6.4	9.1	1.2	.0	.0	.0	19.2	11.1	24.0	4.2	6.3	.8	14.1	23.9	19.3	21.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.8	.0	.0	.0	.0	.0	.0	6.8	.0	5.1	33.3	4.3	41.9	6.1	4.8	4.3	7.2
TOT OBS	201	370	519	140	17	.0	.0	1447	11.3	273	30	92	31	279	186	278	274
TOT PCT	13.9	39.4	35.9	9.7	1.2	.0	.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							41+ TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+	42+	43+				00 03	06 09	12 15	18 21
N	3.9	8.3	1.5	.2	.0	.0	.0	14.8	9.9	10.2	15.4	13.6	15.7	15.7
NE	8.2	15.8	9.5	1.8	.1	.0	.0	34.5	13.2	29.1	27.8	38.9	35.2	35.2
E	2.7	3.8	1.6	.6	.2	.0	.0	8.8	12.9	10.3	8.7	8.0	8.7	8.7
SE	1.2	1.5	1.2	.4	.0	.0	.0	4.3	13.6	5.5	5.1	4.2	3.4	3.4
S	1.0	1.1	.4	.1	.0	.0	.0	2.5	10.6	2.8	2.2	2.0	2.9	2.9
SW	1.0	.7	.1	.0	.0	.0	.0	1.8	8.0	2.3	3.9	1.7	.8	.8
W	1.8	4.3	1.4	.7	.0	.0	.0	8.2	13.2	9.8	16.1	3.6	7.8	7.8
NW	4.4	11.4	2.3	.1	.0	.0	.0	19.2	11.1	22.0	4.9	20.4	19.8	19.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.8	.0	.0	.0	.0	.0	.0	6.8	.0	7.9	13.8	3.6	3.8	3.8
TOT OBS	447	681	280	94	5	.0	.0	1447	11.3	305	123	445	354	354
TOT PCT	30.9	47.1	19.0	3.7	.3	.0	.0	100.0		100.0	100.0	100.0	100.0	100.0

TABLE 4

## PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)							40+ TOTAL OBS	PCT FREQ	MEAN SPD	PCT FREQ	TOTAL OBS
	CALM	1-3	4-10	11-21	22-33	34-47	48+					
00003	7.9	6.2	42.6	34.1	9.2	.0	.0	10.0	100.0	305		
06009	13.4	5.7	39.0	33.3	6.5	1.6	.0	10.4	100.0	123		
12013	5.6	8.4	34.9	36.3	8.8	1.9	.0	11.4	100.0	465		
18021	5.8	6.7	38.1	37.0	11.4	1.1	.0	11.8	100.0	334		
TOT	99	102	570	519	140	17	.0	11.3		1447		
PCT	6.8	7.0	39.4	35.9	9.7	1.2	.0	100.0				

PERIOD: (PRIMARY) 1964-1974  
(OVER-ALL) 1963-1974

JANUARY

CAPT WINGHINBROOK, AK  
60.2N 146.7W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSRY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	1.9	.5	.1	.0	.1	.1	.2	.0	.0	3.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	1.9	.5	.1	.0	.1	.1	.2	.0	.0	3.0	
1/2<1	PCP	.1	2.4	1.2	.1	.1	.2	.1	.1	.0	.1	4.4	
	NO PCP	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	2.4	1.3	.1	.1	.2	.1	.1	.0	.1	4.6	
1<2	PCP	.3	1.9	.3	.4	.0	.1	.1	.1	.0	.1	3.2	
	NO PCP	.0	.2	.0	.0	.0	.0	.0	.0	.0	.1	.3	
	TOT %	.3	2.1	.3	.4	.0	.1	.1	.1	.0	.2	3.5	
2<5	PCP	.4	2.3	1.1	.4	.1	.1	.1	.6	.0	.3	5.6	
	NO PCP	.0	.7	.4	.1	.0	.0	.0	.0	.0	.1	1.3	
	TOT %	.4	3.2	1.5	.5	.1	.1	.1	.6	.0	.4	6.9	
5<10	PCP	.9	2.4	.3	.4	.9	.1	.7	.4	.0	.3	5.3	
	NO PCP	.4	5.1	.5	.0	.2	.4	.5	.7	.0	.1	8.2	
	TOT %	.9	7.4	.9	1.0	.4	.1	1.2	1.1	.0	.4	13.5	
10+	PCP	.1	.4	.2	.0	.1	.0	.1	.0	.0	.0	.9	
	NO PCP	12.0	14.8	4.2	2.2	1.8	1.3	6.3	17.0	.0	5.8	67.6	
	TOT %	.1	15.3	4.4	2.2	1.9	1.3	6.4	17.1	.0	5.8	68.5	
TOT OBS													1447
TOT PCT		13.4	34.5	8.8	4.3	2.5	1.8	8.2	19.2	.0	6.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.2	.0	.1	.0	.1	.0	.1	.0	.0	.3	
	11-21	.1	.8	.3	.1	.0	.0	.1	.1	.0	.0	1.4	
	22+	.0	.9	.2	.0	.0	.0	.0	.1	.0	.0	1.2	
	TOT %	.2	1.9	.3	.1	.0	.1	.1	.2	.0	.0	3.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.2	.1	.0	.1	.2	.0	.1	.0	.0	.6	
	11-21	.0	1.1	.8	.1	.1	.1	.1	.1	.0	.0	2.3	
	22+	.1	1.1	.4	.0	.0	.0	.0	.0	.0	.0	1.6	
	TOT %	.1	2.5	1.3	.1	.1	.2	.1	.1	.0	.1	4.6	
1<2	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.1	.6	.1	.2	.0	.1	.1	.0	.0	.0	1.1	
	11-21	.1	.9	.2	.1	.0	.0	.0	.0	.0	.0	1.3	
	22+	.0	.6	.1	.1	.0	.0	.0	.1	.0	.0	.8	
	TOT %	.3	2.1	.3	.4	.0	.1	.1	.1	.0	.2	3.5	
2<5	0-3	.0	.2	.0	.1	.0	.0	.0	.1	.0	.0	.7	
	4-10	.2	.6	.2	.1	.1	.0	.1	.4	.0	.0	1.7	
	11-21	.1	1.5	.8	.1	.1	.1	.0	.2	.0	.0	2.8	
	22+	.1	.9	.5	.2	.0	.0	.0	.0	.0	.0	1.7	
	TOT %	.4	3.2	1.5	.5	.1	.1	.1	.6	.0	.3	6.9	
5<10	0-3	.1	.5	.2	.0	.1	.0	.0	.2	.0	.4	1.5	
	4-10	.6	2.1	.3	.1	.1	.1	.4	.6	.0	.0	4.4	
	11-21	.1	3.3	.2	.7	.3	.0	.7	.2	.0	.0	5.5	
	22+	.0	1.5	.1	.3	.0	.0	.1	.1	.0	.0	2.1	
	TOT %	.9	7.4	.9	1.0	.4	.1	1.2	1.1	.0	.4	13.5	
10+	0-3	.7	1.8	.6	.6	.1	.3	.3	1.2	.0	5.8	11.3	
	4-10	6.9	9.3	2.7	.7	1.0	.6	2.6	7.3	.0	.0	31.2	
	11-21	4.1	5.4	1.1	.7	.7	.4	2.6	7.6	.0	.0	22.6	
	22+	.3	.7	.0	.2	.1	.0	1.2	1.0	.0	.0	3.4	
	TOT %	12.0	17.3	4.4	2.2	1.9	1.3	6.6	17.1	.0	5.8	68.5	
TOT OBS													1447
TOT PCT		13.8	34.5	8.8	4.3	2.5	1.8	8.2	19.2	.0	6.8	100.0	

TABLE 11

PERCENT FREQUENCY VSRY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000Z	3.0	5.9	3.0	4.6	14.4	69.2	305
0600Z	.8	3.3	1.4	4.9	8.9	40.3	129
1200Z	2.6	2.6	4.9	9.7	14.2	46.5	465
1800Z	4.0	9.8	3.4	6.3	13.3	47.2	555
TOT	44	66	31	100	195	992	1448
PCT	3.0	4.6	3.5	6.9	13.5	68.5	100.0

TABLE 13

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	45	41	39	30	19	10	6	28.7	305
0600Z	41	40	39	28	10	5	3	26.4	129
1200Z	42	39	37	29	13	6	2	27.5	465
1800Z	43	40	38	29	14	5	2	27.4	555
TOT	45	40	38	30	14	8	2	27.6	1448

## FEBRUARY

PERIOD: (PRIMARY) 1966-1973  
(OVER-ALL) 1963-1973

CAPE HINGCHIN BROOK, AK  
60.2N 146.7W

TABLE 1

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							M SIG
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRZG PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	
N	1.1	.0	.0	.0	8.1	.0	.0	9.1	.0	.0	.0	.0	.0	.0	40.9
NE	12.0	.2	3.2	.5	27.8	.2	.0	43.6	.0	.0	3.6	.0	.0	.0	49.9
E	10.1	.0	6.3	.0	24.3	.8	.0	46.8	.0	.0	4.5	.0	.0	.0	48.7
SE	11.8	.0	7.6	.0	17.1	.0	.0	34.7	.0	.0	1.4	.0	.0	1.1	62.7
S	7.1	.0	.0	.0	15.1	.0	.0	22.2	.0	.0	8.7	.0	.0	.0	49.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	.0	.0	.0	96.6
W	.0	.0	1.1	.0	8.4	.0	.0	9.5	.0	.0	2.1	.0	.0	.0	88.4
NW	.5	.0	.9	.0	6.3	.0	.0	7.7	.0	.0	2.7	.0	.0	.0	89.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	10.8	.0	.0	10.8	.0	.0	.0	.0	.0	.0	89.2
TOT PCT	8.6	.1	3.0	.2	18.4	.2	.0	29.9	.0	.0	3.7	.0	.0	.4	60.0
TOT OBS:	1321														

TABLE 2

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							M SIG
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRZG PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	
00003	8.9	.4	3.2	.0	17.1	.4	.0	29.2	.0	.0	2.8	.0	.0	.4	47.6
00009	12.4	.0	.0	.0	20.4	.0	.0	32.7	.0	.0	3.3	.0	.0	.0	61.9
12015	7.3	.0	4.3	.2	18.2	.2	.0	29.8	.0	.0	4.0	.0	.0	.5	65.7
18021	8.5	.0	2.6	.2	18.8	.2	.0	29.8	.0	.0	3.6	.0	.0	.4	66.3
TOT PCT	8.6	.1	3.0	.2	18.4	.2	.0	29.9	.0	.0	3.7	.0	.0	.4	60.0
TOT OBS:	1321														

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	48+					00	03	06	09	12	15	18	21
N	1.2	6.5	2.6	.3	.0	.0	.0	10.6	8.5	7.3	30.4	6.5	42.0	11.7	11.1	9.1	9.6		
NE	1.3	10.0	16.1	5.5	.6	.0	.0	33.5	14.8	30.7	4.5	49.1	8.9	40.1	25.6	36.2	33.2		
E	1.2	5.5	4.0	3.7	1.1	.2	.0	19.7	10.3	23.8	38.4	18.8	31.3	13.9	21.0	17.2	10.9		
SE	.5	1.8	3.0	1.2	.3	.0	.0	6.8	15.4	6.3	8.0	4.1	8.0	7.5	8.0	5.8	7.7		
S	.4	.7	.7	.4	.1	.0	.0	2.4	12.4	3.9	2.7	2.1	.0	2.2	.0	2.3	3.2		
SW	.1	.3	.2	.0	.0	.0	.0	.5	7.1	.5	3.6	2.4	.0	.5	.0	.2	.5		
W	.4	2.4	2.3	.3	.0	.0	.0	3.4	11.3	8.3	.0	11.5	.0	3.5	2.8	4.4	5.2		
NW	1.1	11.6	5.3	.2	.0	.0	.0	18.3	8.9	15.2	8.9	2.1	9.8	19.5	31.5	21.7	16.1		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	2.8							2.8	.0	4.0	3.6	3.9	.0	1.2	.0	2.4	5.2		
TOT OBS	119	511	307	154	28	2	1321	2.8	.0	253	2.8	85	28	254	169	253	251		
TOT PCT	9.0	38.7	38.4	11.7	2.1	.2		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+	41+	41+					00	06	12	18
N	4.2	5.8	.5	.2	.0	.0	.0	10.6	8.5	9.6	15.3	11.5	9.3		
NE	4.7	16.9	9.4	2.3	.2	.0	.0	33.5	14.8	28.1	39.2	34.3	34.7		
E	3.2	8.1	5.2	2.9	.2	.0	.0	19.7	10.3	25.3	21.9	16.7	18.6		
SE	1.6	2.1	2.3	.8	.0	.0	.0	6.8	15.4	6.3	5.1	7.7	6.5		
S	.9	.9	.5	.2	.0	.0	.0	2.4	12.4	3.7	1.5	1.3	2.7		
SW	.3	.2	.0	.0	.0	.0	.0	.5	7.1	.5	1.8	.3	.3		
W	1.3	2.8	1.2	.1	.0	.0	.0	3.4	11.3	7.5	8.6	3.3	5.3		
NW	5.3	12.5	.6	.0	.0	.0	.0	18.3	8.9	14.6	4.0	24.3	18.6		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	2.8							2.8	.0	3.9	2.7	.7	4.0		
TOT OBS	319	652	259	83	6	1321		2.8	.0	281	113	423	304		
TOT PCT	24.1	49.4	19.6	6.4	.5			100.0		100.0	100.0	100.0	100.0		

TABLE 4

## PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47				
00003	3.9	5.3	40.6	38.8	9.6	1.8	.0	12.0	100.0	281
00009	2.7	7.1	36.3	38.9	13.3	1.8	.0	13.3	100.0	113
12015	.7	6.1	40.2	39.5	11.8	1.7	.0	12.7	100.0	428
18021	4.0	6.3	38.9	37.1	18.3	2.8	.4	12.9	100.0	304
TOT	37	42	511	507	154	28	4	12.7		1321
PCT	2.8	6.2	38.7	38.4	11.7	2.1	.2	100.0		

PERIOD: (PRIMARY) 1966-1973  
(OVER-ALL) 1966-1973

# FEBRUARY

CAPE MICHIGAN BROOK, AK  
60.2N 146.7W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	3.6	1.9	.5	.1	.0	.1	.1	.0	.2	6.6	
	NO PCP	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.7	
	TOT %	.2	3.6	2.0	.5	.1	.0	.1	.1	.0	.2	7.3	
1/2<1	PCP	.1	2.9	2.0	.2	.1	.0	.2	.0	.0	.0	5.8	
	NO PCP	.0	.2	.1	.0	.1	.0	.1	.2	.0	.0	.6	
	TOT %	.1	3.1	2.0	.2	.1	.0	.2	.2	.0	.0	6.4	
1<2	PCP	.2	1.9	1.0	.4	.1	.0	.1	.2	.0	.0	3.8	
	NO PCP	.0	.5	.2	.0	.0	.0	.0	.0	.0	.0	.7	
	TOT %	.2	2.4	1.2	.4	.1	.0	.1	.2	.0	.0	4.5	
2<5	PCP	.2	4.1	2.3	.5	.1	.0	.1	.6	.0	.1	8.0	
	NO PCP	.0	1.1	.5	.0	.0	.0	.1	.2	.0	.0	2.0	
	TOT %	.2	5.3	2.7	.5	.1	.0	.1	.9	.0	.1	10.1	
5<10	PCP	.2	1.9	2.0	.4	.2	.0	.2	.2	.0	.0	5.2	
	NO PCP	.0	3.4	2.1	1.4	.0	.0	.3	1.9	.0	.2	12.3	
	TOT %	.2	5.3	4.2	2.0	.2	.0	.4	2.1	.0	.2	17.5	
10+	PCP	.0	.3	.0	.2	.0	.0	.0	.0	.0	.0	.5	
	NO PCP	.0	11.3	7.5	2.9	1.3	.0	4.5	14.4	.0	2.3	33.7	
	TOT %	.0	11.6	7.5	3.1	1.3	.0	4.5	14.4	.0	2.3	34.2	
TOT OBS													1320
TOT PCT		10.0	33.6	19.7	6.8	2.4	.5	5.4	18.3	.0	2.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSPD (KTS)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.1	.2	.0	.2	.0	.1	.0	.0	.2	.8	
	4-10	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	11-21	.1	1.7	.7	.3	.0	.0	.0	.1	.0	.0	3.0	
	22+	.0	2.0	1.1	.2	.1	.0	.0	.0	.0	.0	3.3	
	TOT %	.2	3.9	2.0	.5	.2	.0	.1	.1	.0	.2	7.3	
1/2<1	0-3	.0	.0	.2	.0	.1	.0	.1	.1	.0	.0	.4	
	4-10	.1	.3	.3	.1	.0	.0	.1	.3	.0	.0	1.4	
	11-21	.0	2.0	.5	.0	.0	.0	.1	.0	.0	.0	2.7	
	22+	.0	.7	1.1	.1	.0	.0	.1	.0	.0	.0	2.0	
	TOT %	.1	3.1	2.0	.2	.1	.0	.2	.4	.0	.0	6.4	
1<2	0-3	.1	.1	.0	.0	.0	.0	.1	.0	.0	.0	.2	
	4-10	.0	.5	.2	.0	.0	.0	.0	.1	.0	.0	.8	
	11-21	.1	1.1	.5	.2	.0	.0	.0	.1	.0	.0	1.9	
	22+	.0	.7	.5	.2	.1	.0	.0	.0	.0	.0	1.5	
	TOT %	.2	2.4	1.2	.4	.1	.0	.1	.2	.0	.0	4.5	
2<5	0-3	.0	.2	.1	.1	.0	.0	.0	.1	.0	.1	.5	
	4-10	.1	1.2	.5	.2	.1	.0	.1	.3	.0	.0	2.7	
	11-21	.1	2.5	1.0	.2	.0	.0	.0	.2	.0	.0	3.9	
	22+	.1	1.5	1.2	.2	.1	.0	.0	.0	.0	.0	3.0	
	TOT %	.2	5.3	2.7	.6	.1	.0	.1	.9	.0	.1	10.1	
5<10	0-3	.0	.2	.0	.1	.0	.0	.1	.1	.0	.2	.6	
	4-10	.0	2.4	1.0	.3	.2	.0	.2	1.2	.0	.0	6.1	
	11-21	.2	3.9	2.2	1.2	.1	.0	.1	.8	.0	.0	8.5	
	22+	.0	.8	1.0	.4	.2	.0	.0	.1	.0	.0	2.5	
	TOT %	.2	7.2	4.2	2.0	.5	.0	.4	2.1	.0	.2	17.5	
10+	0-3	1.1	.9	.8	.3	.2	.1	.1	.8	.0	2.3	6.6	
	4-10	5.5	5.5	3.4	1.2	.5	.3	2.0	9.2	.0	.0	27.4	
	11-21	2.2	4.8	3.2	1.1	.5	.2	2.2	4.2	.0	.0	18.4	
	22+	.2	.5	.1	.5	.1	.0	.2	.2	.0	.0	1.8	
	TOT %	8.9	11.6	7.5	3.1	1.3	.5	4.5	14.4	.0	2.3	54.2	
TOT OBS													1320
TOT PCT		10.0	33.6	19.7	6.8	2.4	.5	5.4	18.3	.0	2.8	100.0	

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000Z	7.1	7.1	3.4	8.2	17.8	36.2	281
0600Z	1.0	4.4	3.3	10.6	22.1	35.8	113
1201Z	7.8	7.1	3.7	9.7	17.7	32.0	423
1802Z	8.2	6.0	3.8	11.3	16.1	34.7	903
TOT	96	85	39	133	231	716	1320
PCT	7.3	6.4	4.5	10.1	17.3	54.2	100.0

TABLE 13

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	48	43	40	34	23	16	13	32.8	281
0600Z	45	42	39	33	20	15	15	31.5	113
1201Z	42	40	39	32	19	13	8	30.6	423
1802Z	47	41	39	33	21	15	11	31.8	904
TOT	48	41	39	33	20	15	8	31.6	1321

PERIOD: (PRIMARY) 1966-1973  
(OVER-ALL) 1969-1973

MARCH

CAPE MINCHINBROOK, AK  
60.2N 146.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WNO DIR	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FREN PCPN	MAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WQ PCPN	FGG WQ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WFA
N	2.2	.0	.0	.0	8.5	.0	.0	10.7	.0	.0	2.8	.0	.0	.0	86.6
NE	11.0	.0	3.3	.0	25.4	1.0	.0	40.5	.0	.0	5.4	.0	.0	.0	34.1
E	14.9	.0	2.1	.3	32.2	1.7	.0	50.7	.0	.0	7.4	.0	.0	.0	41.9
SE	11.9	.0	3.0	.0	11.2	.7	.0	28.1	.0	.0	4.1	.0	.0	.0	67.8
S	2.9	.0	.0	.0	10.2	.0	2.0	15.1	.0	.0	3.4	.0	.0	.0	81.5
SW	.0	.0	5.6	.0	8.5	.0	.0	14.1	.0	.0	.0	.0	.0	.0	85.9
W	.0	.0	.9	.0	3.3	.0	.0	4.1	.0	.0	2.4	.0	.0	.0	93.5
NW	.0	.0	.5	.0	10.2	.5	.0	11.2	.0	.0	.4	.0	.9	.0	88.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	21.4	1.8	.0	23.2	.0	.0	.0	.0	.0	.0	76.8
TOT PCT	8.0	.0	2.1	.1	19.3	1.0	.1	30.1	.0	.0	4.2	.0	.1	.0	65.6
TOT OBS:	1445														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MIST	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WQ PCPN	FOG WQ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WFA
00003	9.5	.0	2.6	.3	16.7	.0	.3	29.1	.0	.0	3.9	.0	.0	.0	.0	67.0
06009	8.3	.0	.0	.0	25.6	.8	.0	33.9	.0	.0	1.7	.0	.0	.0	.0	84.5
12015	8.4	.0	1.9	.0	19.0	2.2	.0	30.9	.0	.0	5.2	.0	.0	.0	.0	63.9
18021	6.7	.0	2.3	.0	19.6	.7	.0	29.2	.0	.0	4.1	.0	.2	.0	.0	66.5
TOT PCT TOT OBS:	8.0 1445	.0	2.1	.1	19.3	1.0	.1	30.1	.0	.0	4.2	.0	.1	.0	.0	65.6

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21	
N	1.2	5.8	1.7	.1	.0	.0		8.7	7.3		5.4	8.1	8.9	10.5	10.6	11.1	10.7	6.1
NE	1.3	9.3	11.4	1.0	.0	.0		29.9	13.3		22.3	5.6	24.4	10.5	33.0	31.2	26.4	22.3
E	.7	7.7	10.1	4.4	1.1	.2		24.3	15.6		23.8	46.8	23.9	46.8	21.9	25.7	22.3	23.2
SE	.7	3.0	4.9	1.3	.1	.0		10.0	13.6		12.7	12.9	9.6	9.7	7.7	9.3	8.0	13.9
S	.2	1.3	1.8	.2	.0	.0		3.5	11.1		3.6	8.9	2.8	10.5	8.1	2.4	3.9	3.1
SW	.2	.9	.1	.0	.0	.0		1.2	5.3		2.3	3.2	1.4	.0	1.0	.7	.5	1.3
W	.4	4.4	2.9	.6	.2	.0		8.0	11.3		10.9	.0	18.6	.0	7.4	1.5	6.7	9.5
NW	1.2	7.5	5.3	.4	.0	.0		14.4	9.6		16.0	14.5	2.5	12.1	12.4	17.6	16.3	14.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.9	.0	.0	.0	.0	.0		3.9	.0		2.5	.0	10.0	.0	2.9	.5	5.0	6.1
TOT OBS	144	576	549	144	28	3	1446				278	31	90	31	278	185	278	278
TOT PCT	10.0	40.0	38.0	10.0	1.9	.2		100.0	12.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	03	06	12	18
N	4.3	4.4	.0	.1	.0			8.7	7.3		6.0	9.3	10.8	8.4	
NE	5.2	13.4	6.0	1.1	.1			25.9	13.3		20.6	22.3	32.3	24.4	
E	3.8	11.1	6.5	2.5	.3			24.9	15.6		26.1	29.8	23.4	22.8	
SE	2.2	6.5	2.9	.4	.0			10.0	13.6		12.7	6.6	8.4	10.7	
S	.9	2.2	.6	.0	.0			3.5	11.1		4.2	6.8	2.9	3.5	
SW	.9	.3	.0	.0	.0			1.2	5.3		2.4	1.0	.9	.9	
W	2.1	4.2	1.2	.4	.0			8.0	11.3		9.8	13.8	5.0	8.1	
NW	4.2	8.5	1.7	.0	.0			14.4	9.6		15.8	5.0	14.3	15.6	
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
CALM	3.9	.0	.0	.0	.0			3.9	.0		2.5	7.4	1.9	5.6	
TOT OBS	399	703	273	64	7	1446					306	121	463	336	
TOT PCT	27.6	48.6	18.9	4.4	.5			100.0	12.0		100.0	100.0	100.0	100.0	

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)							PCT FREQ	TOTAL OBS
	CALM	1-3	4-10	11-21	22-33	34-47	48+		
00003	2.3	3.5	40.5	43.1	9.2	1.6	.0	12.4	306
06009	7.4	1.7	38.0	36.4	13.2	1.7	1.7	12.9	121
12015	1.9	5.6	42.8	37.8	9.1	2.4	.2	12.2	463
18021	5.6	8.6	37.8	35.6	10.4	1.8	.0	11.3	336
TOT	96	89	378	349	144	28	.2	12.0	1446
PCT	3.9	6.1	40.0	38.0	10.0	1.9	.2	100.0	

PERIOD: (PRIMARY) 1964-1973  
(OVER-ALL) 1967-1973

MARCH

CAPE WINCHEBROOK, AK  
40.2N 146.7W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSRY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.3	2.7	3.3	.8	.1	.0	.1	.3	.0	.0	7.7	
	NO PCP	.0	.2	.1	.0	.1	.0	.0	.0	.0	.0	.3	
	TOT %	.3	2.9	3.4	.8	.2	.0	.1	.3	.0	.0	8.1	
1/2<1	PCP	.1	1.6	2.6	.5	.2	.0	.1	.8	.0	.0	3.9	
	NO PCP	.1	.2	.3	.1	.0	.0	.0	.0	.0	.0	.7	
	TOT %	.2	1.8	2.9	.6	.2	.0	.1	.8	.0	.0	4.6	
1<2	PCP	.2	.9	1.2	.2	.0	.0	.1	.1	.0	.2	2.9	
	NO PCP	.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.2	1.1	1.4	.4	.0	.0	.1	.1	.0	.2	3.4	
2<5	PCP	.1	1.2	2.9	.7	.1	.0	.0	.1	.0	.0	7.0	
	NO PCP	.2	.6	1.2	.1	.1	.0	.2	.1	.0	.0	2.6	
	TOT %	.3	1.8	4.0	.8	.2	.0	.2	.2	.0	.0	9.6	
5<10	PCP	.2	2.0	1.9	.6	.1	.2	.1	.2	.0	.3	5.6	
	NO PCP	.5	1.9	3.4	2.0	.8	.1	.4	1.2	.0	.2	11.9	
	TOT %	.7	3.9	5.2	2.6	.9	.2	.5	1.4	.0	.5	17.5	
10+	PCP	.0	.2	.1	.1	.1	.0	.0	.0	.0	.2	.8	
	NO PCP	7.0	10.3	7.0	4.8	2.8	.9	7.1	11.6	.0	2.8	54.9	
	TOT %	7.0	10.5	7.1	4.9	2.8	.9	7.1	11.6	.0	3.0	54.9	
TOT OBS													1434
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	4-10	.2	.4	.4	.1	.1	.0	.0	.2	.0	.0	1.4	
	11-21	.1	1.4	1.6	.6	.0	.0	.1	.3	.0	.0	4.0	
	22+	.0	1.2	1.3	.1	.0	.0	.0	.0	.0	.0	2.6	
	TOT %	.3	2.9	3.4	.8	.1	.0	.1	.3	.0	.0	8.1	
1/2<1	0-3	.0	.0	.1	.1	.0	.0	.0	.1	.0	.0	.3	
	4-10	.1	.5	.4	.1	.1	.0	.1	.3	.0	.0	1.7	
	11-21	.1	.7	1.6	.2	.1	.0	.0	.3	.0	.0	3.0	
	22+	.0	.6	.8	.1	.1	.0	.0	.0	.0	.0	1.5	
	TOT %	.2	1.8	2.9	.6	.2	.0	.1	.6	.0	.0	6.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.0	.3	.2	.1	.0	.0	.1	.1	.0	.0	.7	
	11-21	.1	.5	.7	.0	.0	.0	.0	.0	.0	.0	1.3	
	22+	.1	.3	.6	.3	.0	.0	.0	.0	.0	.0	1.2	
	TOT %	.2	1.1	1.4	.4	.0	.0	.1	.1	.0	.2	3.4	
2<5	0-3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	4-10	.1	.4	.9	.1	.0	.0	.2	.1	.0	.0	2.2	
	11-21	.0	2.3	1.8	.6	.1	.0	.0	.1	.0	.0	4.8	
	22+	.0	.6	1.4	.1	.1	.0	.0	.0	.0	.0	2.2	
	TOT %	.3	3.6	4.0	.8	.2	.0	.2	.2	.0	.0	9.3	
5<10	0-3	.0	.2	.2	.0	.1	.1	.1	.2	.0	.7	1.5	
	4-10	.4	1.3	1.3	.4	.1	.2	.2	.7	.0	.0	4.9	
	11-21	.3	3.6	2.2	1.8	.1	.0	.2	.3	.0	.0	8.7	
	22+	.0	.7	1.3	.4	.1	.0	.0	.0	.0	.0	2.4	
	TOT %	.7	5.9	5.2	2.6	.3	.2	.6	1.4	.0	.7	17.6	
10+	0-3	1.0	1.0	.4	.5	.1	.4	1.0	.0	.0	3.0	7.5	
	4-10	3.1	3.8	4.4	2.2	1.1	.8	3.8	6.1	.0	.0	29.3	
	11-21	.9	3.4	2.0	1.8	1.3	.1	2.1	4.2	.0	.0	13.9	
	22+	.0	.3	.3	.4	.1	.0	.8	.4	.0	.0	2.2	
	TOT %	7.0	10.5	7.1	4.9	2.8	.9	7.1	11.6	.0	3.0	54.9	
TOT OBS													1434
TOT PCT													100.0

TABLE 11

PERCENT FREQUENCY VSRY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	7.9	6.9	3.0	9.6	16.2	36.4	303
06009	7.4	3.9	2.5	9.2	20.2	38.8	119
12015	9.3	6.7	3.9	10.0	18.3	31.3	400
18021	8.2	6.3	3.4	9.1	17.0	36.0	332
TOT	11.6	9.4	4.9	13.6	25.2	78.7	1434
PCT	8.1	6.6	3.4	9.5	17.6	54.9	100.0

TABLE 13

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	48	44	41	34	29	16	11	34.3	303
06009	42	41	39	32	18	10	5	31.1	119
12015	43	41	38	33	21	12	4	31.7	400
18021	48	43	40	34	22	12	0	33.2	332
TOT	48	42	40	34	22	12	4	32.8	1440

PERIOD: (PRIMARY) 1966-1973  
(OVERALL) 1965-1973

APRIL

CAPE MINCINBROOK, AK  
60.2N 146.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA	
N	2.3	.0	.0	.0	11.7	.0	.0	14.1	.0	.0	1.2	.0	.0	.0	84.8	
NE	14.8	.0	2.4	.0	20.2	.6	.0	37.8	.0	.0	4.7	.0	.0	.0	56.3	
E	14.0	.0	2.5	.0	22.4	.6	.0	38.5	.0	.0	4.1	.0	.0	1.1	50.0	
SE	20.9	.0	4.1	.0	13.4	.5	.0	38.6	.0	.0	3.9	.0	.0	.0	57.3	
S	4.3	.0	.0	.0	6.0	.0	.0	10.2	.0	.0	.0	.0	.0	.0	89.8	
SW	.0	.0	.0	.0	9.8	.0	.0	9.8	.0	.0	.0	.0	.0	.0	90.2	
W	.0	.0	.0	.0	8.4	.0	.0	8.4	.0	.0	.0	.0	.0	.0	91.6	
NW	.4	.0	.4	.0	2.0	.0	.0	2.9	.0	.0	1.2	.0	.0	.0	95.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	11.4	.0	.0	11.4	.0	.0	9.1	.0	.0	.0	79.5	
TOT PCT	9.7	.0	1.7	.0	14.4	.4	.0	25.9	.0	.0	3.2	.0	.1	.5	70.4	
TOT OBS:	1388															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	8.9	.0	3.4	.0	16.1	.0	.0	28.4	.0	.0	2.7	.0	.0	.0	86.2
0600	6.8	.0	.9	.0	18.8	.0	.0	25.0	.0	.0	1.7	.0	.0	.0	71.8
1200	10.4	.0	1.6	.0	12.9	.9	.0	25.0	.0	.0	4.0	.0	.0	.0	70.4
1800	10.1	.0	1.1	.0	13.8	.2	.0	24.0	.0	.0	3.0	.0	.0	.0	71.5
TOT PCT	9.7	.0	1.7	.0	14.4	.4	.0	25.8	.0	.0	3.2	.0	.1	.5	70.5
TOT OBS:	1395														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.8	2.3	1.5	.1	.0	.0	4.7	8.3	1.4	6.0	2.0	17.9	9.0	7.3	4.2	1.5		
NE	1.5	8.2	10.9	2.9	.3	.0	23.5	13.3	21.7	3.4	33.3	6.3	27.5	26.8	22.6	27.0		
E	.7	8.3	10.8	4.9	1.2	.1	26.0	15.8	26.9	36.2	15.9	46.4	25.2	25.3	24.4	28.3		
SE	.6	3.8	4.0	1.8	.4	.0	10.6	14.4	13.1	36.2	2.0	13.4	7.7	7.5	9.1	14.3		
S	.2	2.7	1.1	.1	.0	.0	4.2	8.2	4.2	6.9	7.1	6.3	3.5	4.2	3.9	3.9		
SW	.5	4.6	3.4	.1	.0	.0	1.7	7.2	1.9	.0	2.3	3.6	.9	.7	1.2	3.3		
W	.9	8.7	7.5	.4	.0	.0	8.3	9.5	12.9	.0	17.9	.0	4.1	1.1	9.2	11.8		
NW	.9	8.7	7.5	.4	.0	.0	17.6	10.7	18.2	11.2	10.5	6.3	16.9	24.3	21.3	15.7		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	3.2	.0	.0	.0	.0	.0	3.2	.0	1.5	.0	6.8	.0	5.2	2.8	4.1	1.3		
TOT OBS	119	553	547	142	26	2	1389		201	29	88	28	270	179	269	283		
TOT PCT	8.6	39.8	39.4	10.2	1.9	.1		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
		7-16	17-27	28-40	00 03					06 09	12 15	18 21			
N	1.6	2.7	.3	.0	.0		4.7	8.5	1.9	5.8	6.3	2.9			
NE	4.1	13.1	5.5	.9	.0		23.5	13.3	19.9	28.4	27.2	21.3			
E	2.9	12.3	6.4	3.1	.4		26.0	15.8	27.8	29.3	25.2	26.4			
SE	2.1	5.0	2.3	1.1	.1		10.6	14.4	15.4	4.7	7.6	11.7			
S	2.0	2.1	.1	.1	.0		4.2	8.2	4.5	6.9	3.8	3.9			
SW	.7	1.0	.0	.0	.0		1.7	7.2	1.7	2.6	.8	1.2			
W	2.0	8.0	.6	.0	.0		8.3	9.5	11.6	13.6	2.9	10.5			
NW	3.5	12.0	2.0	.1	.0		17.6	10.7	15.7	9.5	19.9	18.1			
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0			
CALM	3.2	.0	.0	.0	.0		3.2	.0	1.4	3.2	4.2	2.8			
TOT OBS	32.0	79.3	23.7	7.2	.5	1389		12.3	29.0	11.6	44.9	53.6			
TOT PCT	23.0	54.2	17.1	5.2	.5			100.0	100.0	100.0	100.0	100.0			

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN
	CALM	1-3	4-10	11-21	22-33	34-47	48+			
0000	1.4	6.8	42.4	38.6	11.7	1.0	.0	12.4	100.0	290
0600	3.2	3.4	41.4	33.3	12.9	.9	.9	12.3	100.0	116
1200	4.2	5.3	37.9	42.3	8.5	1.6	.2	12.1	100.0	449
1800	2.8	6.2	39.7	38.2	10.3	2.8	.0	12.4	100.0	534
TOT	44	75	553	547	142	26	2	12.3		1389
PCT	3.2	5.4	39.8	39.4	10.2	1.9	.1	100.0		

PERIOD: (PRIMARY) 1966-1973  
(OVER-ALL) 1963-1973

APRIL

GAPE HINGHINBROOK, AK  
60.2N 146.7W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	2.9	3.1	.4	.1	.0	.1	.1	.0	.1	6.9	
	NO PCP	.0	.1	.1	.1	.0	.0	.0	.1	.0	.1	.4	
	TOT %	.2	3.0	3.2	.5	.1	.0	.1	.2	.0	.2	7.4	
1/2<1	PCP	.1	1.3	2.4	.6	.0	.1	.3	.0	.0	.1	4.9	
	NO PCP	.0	.1	.3	.0	.0	.0	.1	.0	.0	.1	.8	
	TOT %	.1	1.5	2.9	.6	.0	.1	.3	.1	.0	.1	5.7	
1<2	PCP	.1	.7	.8	.6	.1	.0	.1	.1	.0	.0	2.4	
	NO PCP	.0	.1	.3	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.1	.9	1.1	.6	.1	.0	.1	.1	.0	.0	2.9	
2<5	PCP	.3	1.8	1.9	1.9	.1	.0	.1	.1	.0	.1	6.2	
	NO PCP	.1	.8	.3	.3	.0	.0	.0	.0	.0	.1	1.7	
	TOT %	.3	2.6	2.4	2.1	.1	.0	.1	.1	.0	.1	7.9	
5<10	PCP	.1	2.1	1.2	.9	.3	.1	.1	.1	.0	.1	4.8	
	NO PCP	.5	4.7	3.7	1.7	.2	.1	.1	1.4	.0	.3	12.8	
	TOT %	.7	6.8	4.9	2.4	.5	.1	.3	1.5	.0	.4	17.6	
10+	PCP	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	3.4	8.9	10.9	4.4	3.8	1.4	7.8	15.7	.0	2.3	58.6	
	TOT %	3.4	8.9	11.0	4.5	3.8	1.4	7.8	15.7	.0	2.3	58.6	
TOT OBS													1374
TOT PCT		4.7	23.6	23.6	10.7	4.3	1.7	8.6	17.6	.0	3.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.1	.0	.0	.1	.0	.0	.2	.4	
	4-10	.1	.6	.1	.1	.0	.0	.0	.0	.0	.0	.9	
	11-21	.1	1.7	1.4	.2	.1	.0	.0	.2	.0	.0	3.3	
	22+	.0	.7	1.7	.1	.0	.0	.0	.0	.0	.0	2.5	
	TOT %	.2	3.0	3.2	.3	.1	.0	.1	.2	.0	.2	7.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.2	
	4-10	.1	.3	.2	.1	.0	.1	.1	.1	.0	.0	.9	
	11-21	.0	.7	1.2	.1	.0	.0	.1	.0	.0	.0	2.0	
	22+	.0	.6	1.3	.4	.0	.0	.0	.0	.0	.0	2.3	
	TOT %	.1	1.5	2.9	.6	.0	.1	.2	.1	.0	.1	5.7	
1<2	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.1	.0	.0	.1	.0	.1	.1	.0	.0	.6	
	11-21	.1	.7	.7	.3	.0	.0	.0	.0	.0	.0	1.7	
	22+	.0	.1	.4	.3	.0	.0	.0	.0	.0	.0	.8	
	TOT %	.1	.9	1.1	.6	.1	.0	.1	.1	.0	.0	2.9	
2<5	0-3	.0	.1	.0	.1	.0	.0	.0	.0	.0	.1	.4	
	4-10	.0	.3	.3	.2	.1	.0	.1	.1	.0	.0	1.3	
	11-21	.3	1.5	.9	.8	.0	.0	.0	.0	.0	.0	3.5	
	22+	.1	.4	1.1	1.1	.0	.0	.0	.0	.0	.0	2.7	
	TOT %	.3	2.6	2.4	2.1	.1	.0	.1	.1	.0	.1	7.9	
5<10	0-3	.1	.1	.3	.0	.0	.1	.0	.1	.0	.4	1.0	
	4-10	.3	2.4	1.9	1.0	.1	.0	.1	.9	.0	.0	6.9	
	11-21	.1	3.0	1.9	1.3	.3	.1	.1	.6	.0	.0	7.4	
	22+	.0	1.3	.8	.1	.0	.0	.0	.0	.0	.0	2.3	
	TOT %	.7	6.8	4.9	2.4	.5	.1	.3	1.5	.0	.4	17.6	
10+	0-3	.7	1.1	.4	.5	.4	.1	.3	.9	.0	2.3	6.6	
	4-10	1.6	4.4	5.8	2.4	2.5	1.2	4.2	7.7	.0	.0	29.8	
	11-21	1.0	3.4	4.3	1.5	.7	.1	2.2	6.7	.0	.0	20.9	
	22+	.0	.1	.5	.1	.1	.0	.1	.5	.0	.0	1.3	
	TOT %	3.4	8.9	11.0	4.5	3.8	1.4	7.8	15.7	.0	2.3	58.6	
TOT OBS													1374
TOT PCT		4.7	23.6	23.6	10.7	4.3	1.7	8.6	17.6	.0	3.2	100.0	

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	9.3	3.5	4.5	7.3	14.3	60.9	289
06009	6.0	3.4	2.6	10.3	12.8	65.0	117
12015	6.1	6.1	2.7	8.6	22.7	53.8	444
18021	7.4	7.2	2.3	7.0	13.8	60.3	321
TOT	101	79	40	108	242	811	1381
PCT	7.3	5.7	2.9	7.8	17.5	58.7	100.0

TABLE 13

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	60	53	46	34	32	29	27	38.6	292
06009	48	40	39	34	29	25	23	34.3	117
12015	50	47	41	39	30	25	23	35.3	444
18021	63	50	45	37	31	24	26	37.7	321
TOT	63	50	45	36	31	26	23	36.8	1396

PERIOD (PRIMARY) 1961-1973  
(OVERALL) 1961-1973

MAY

CAPE MICHIGAN BROOK, AK  
60.2N 146.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FREN PCPN	HAUL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG MD PCPN	FOG MD PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WFA
N	3.5	.0	3.5	.0	.0	.0	.0	7.1	.0	.0	1.3	.0	.0	.0	91.6
NE	39.0	.0	3.5	.0	3.8	.4	.1	40.5	.0	.0	2.3	.0	.0	.0	51.2
E	30.3	1.0	4.1	.0	2.5	.0	.4	43.3	.0	.0	2.9	.0	.0	.0	43.8
SE	27.7	.1	4.7	.0	1.6	.0	.0	33.4	.0	.0	6.4	.0	.0	.0	60.1
S	15.0	.0	3.1	.0	.8	.0	.0	18.9	.0	.0	4.2	.0	.0	.0	76.9
SW	2.2	.0	.0	.0	.0	.0	.0	2.2	.0	.0	1.8	.0	.0	.0	96.0
W	.9	.0	.0	.0	.0	.0	.0	.9	.0	.0	6.2	.0	.0	.0	92.9
NW	2.5	.0	.2	.0	1.5	.0	.0	4.2	.0	.0	3.6	.0	.0	.0	92.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7	.0	3.4	.0	.0	.0	.0	3.2	.0	.0	3.2	.0	.0	.0	89.7
TOT PCT	24.6	.3	3.2	.0	1.9	.1	.1	29.9	.0	.0	3.5	.0	.0	.0	66.6
TOT OBS	1445														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FREN PCPN	HAUL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG MD PCPN	FOG MD PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WFA
0000	23.8	.3	2.9	.0	1.3	.0	.0	27.7	.0	.0	2.0	.0	.0	.0	70.4
0609	24.6	.8	2.5	.0	.0	.0	.0	28.0	.0	.0	2.3	.0	.0	.0	69.5
12015	24.6	.4	1.9	.0	1.9	.2	.4	28.9	.0	.0	4.3	.0	.0	.0	66.8
18021	25.2	.2	4.5	.0	2.7	.0	.0	32.4	.0	.0	4.0	.0	.0	.0	63.7
TOT PCT	24.6	.3	3.2	.0	1.9	.1	.1	29.9	.0	.0	3.5	.0	.0	.0	66.6
TOT OBS	1445														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21	
N	1.4	3.3	.7	.0	.0	.0		5.4	6.1		.4	8.9	1.1	3.3	8.9	14.4	4.1	3.7
NE	1.3	6.5	7.6	2.2	.6	.0		18.1	13.3		16.1	4.9	29.3	13.3	22.2	10.8	18.3	15.1
E	1.4	12.3	14.0	4.9	1.7	.2		34.5	14.9		34.4	32.4	38.4	40.8	26.9	31.7	34.8	39.7
SE	1.1	5.6	3.6	1.9	.3	.1		12.6	12.6		14.9	26.6	7.1	37.5	10.7	10.1	11.1	13.0
S	2.1	3.6	.7	.1	.0	.0		6.6	3.7		7.7	.0	5.1	5.0	6.9	5.4	5.8	4.1
SW	1.1	2.7	.2	.0	.0	.0		3.9	5.6		8.4	6.5	1.7	.0	1.1	1.6	2.2	6.4
W	.7	4.4	.7	.0	.0	.0		5.8	7.0		7.3	.0	8.5	.0	4.4	3.2	7.0	6.8
NW	1.1	4.9	3.1	.1	.0	.0		9.1	9.2		7.9	.8	1.7	.0	13.1	13.0	10.8	6.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.0	.0	.0	.0	.0	.0		4.0	.0		2.9	.0	6.6	.0	5.8	3.8	5.8	1.8
TOT OBS	204	625	443	134	37	4	1447			11.4	277	31	88	30	278	186	278	279
TOT PCT	14.1	43.2	30.6	9.3	2.6	.3		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	3.4	1.8	.1	.0	.0				3.4	6.1			
NE	4.0	8.7	3.8	1.5	.1				18.1	13.3			
E	4.5	19.1	7.0	3.4	.5				34.5	14.9			
SE	3.7	5.7	2.2	.9	.1				12.6	12.6			
S	4.8	1.5	.3	.0	.0				6.6	3.7			
SW	2.8	1.3	.1	.0	.0				3.9	5.6			
W	2.8	3.1	.0	.0	.0				5.8	7.0			
NW	2.7	8.2	.1	.1	.0				9.1	9.2			
VAR	.0	.0	.0	.0	.0				.0	.0			
CALM	4.0	.0	.0	.0	.0				4.0	.0			
TOT OBS	408	684	197	87	10	1447			277	31	88	30	278
TOT PCT	28.2	47.3	13.6	6.0	.7				100.0	11.4			

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD
	CALM	1-3	4-10	11-21	22-33			
0000	2.6	6.2	47.1	32.1	9.7	1.9	.3	11.7
0609	5.1	8.5	37.3	31.4	14.4	2.5	.8	12.7
12015	5.0	12.4	25.8	33.4	7.5	1.9	.0	10.7
18021	3.8	9.9	46.0	27.3	9.3	3.4	.4	11.4
TOT	58	146	625	443	134	37		
PCT	4.0	10.1	43.2	30.6	9.3	2.6	.3	100.0

PERIOD: (PRIMARY) 1966-1973  
(OVER-ALL) 1965-1973

MAY

CAPE MICHIGAN BROOK, AK  
60.2N 146.7W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	1.2	.3	.1	.0	.0	.0	.0	.0	2.2	
	NO PCP	.0	.0	.2	.2	.0	.0	.1	.1	.0	.1	.8	
	TOT %	.0	.0	1.4	.5	.1	.0	.1	.1	.0	.1	3.0	
1/2<1	PCP	.0	1.0	2.3	.8	.1	.0	.0	.0	.0	.0	4.1	
	NO PCP	.0	.0	.1	.1	.1	.1	.1	.2	.0	.1	.6	
	TOT %	.0	1.0	2.4	.9	.1	.1	.1	.2	.0	.1	4.7	
1<2	PCP	.0	.8	1.2	.6	.1	.0	.0	.1	.0	.0	2.6	
	NO PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.8	1.4	.6	.1	.0	.0	.1	.0	.0	2.7	
2<5	PCP	.1	1.4	3.0	1.0	.3	.0	.0	.1	.0	.1	5.9	
	NO PCP	.1	.3	.5	.5	.1	.0	.2	.1	.0	.0	1.7	
	TOT %	.2	1.7	3.4	1.5	.4	.0	.2	.2	.0	.1	7.6	
5<10	PCP	.2	3.8	6.2	1.4	.5	.0	.2	.0	.1	.1	12.5	
	NO PCP	.3	2.8	3.9	1.9	1.3	.2	.9	.0	.2	.2	13.8	
	TOT %	.6	6.6	12.1	3.3	1.8	.2	1.1	.0	.3	.3	26.3	
10+	PCP	.1	.9	1.2	.3	.2	.1	.1	.0	.1	.1	2.9	
	NO PCP	4.4	6.6	12.3	3.3	3.6	3.6	3.3	7.5	.0	3.6	52.7	
	TOT %	4.5	7.5	13.7	3.6	4.1	3.6	3.3	7.6	.0	3.7	55.6	
TOT OBS													1435
TOT PCT		5.3	18.2	34.4	12.4	6.6	4.0	5.9	9.2	.0	4.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.0	.1	.3	.2	.1	.0	.1	.1	.0	.0	1.0	
	11-21	.0	.3	.3	.2	.1	.0	.0	.0	.0	.0	1.1	
	22+	.0	.1	.4	.1	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.0	.6	1.4	.5	.1	.0	.1	.1	.0	.1	3.0	
1/2<1	0-3	.0	.0	.0	.1	.0	.0	.0	.1	.0	.1	.2	
	4-10	.0	.0	.3	.2	.1	.1	.1	.1	.0	.0	.8	
	11-21	.0	.6	1.0	.2	.0	.0	.0	.0	.0	.0	1.9	
	22+	.0	.3	1.1	.5	.0	.0	.0	.0	.0	.0	1.9	
	TOT %	.0	1.0	2.4	.9	.1	.1	.1	.2	.0	.1	4.7	
1<2	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.3	.7	.1	.0	.0	.0	.1	.0	.0	1.2	
	22+	.0	.3	.9	.3	.1	.0	.0	.0	.0	.0	1.3	
	TOT %	.0	.8	1.4	.5	.1	.0	.0	.1	.0	.0	2.7	
2<5	0-3	.1	.0	.0	.0	.1	.0	.1	.0	.0	.1	.3	
	4-10	.1	.2	.6	.4	.1	.0	.1	.1	.0	.0	1.6	
	11-21	.0	1.0	1.6	.9	.1	.0	.0	.0	.0	.0	3.3	
	22+	.0	.5	1.3	.6	.1	.0	.0	.0	.0	.0	2.4	
	TOT %	.2	1.7	3.4	1.5	.4	.0	.2	.2	.0	.1	7.6	
5<10	0-3	.1	.3	.3	.2	.4	.0	.1	.4	.0	.3	2.1	
	4-10	.3	2.0	3.6	1.1	1.1	.2	.1	.6	.0	.0	9.2	
	11-21	.1	3.0	5.0	1.2	.3	.0	.0	.1	.0	.0	9.8	
	22+	.0	1.3	3.2	.7	.0	.0	.0	.0	.0	.0	5.3	
	TOT %	.6	6.6	12.1	3.3	1.8	.2	.2	1.1	.0	.3	26.3	
10+	0-3	1.1	1.0	.8	.7	1.6	1.1	.3	.0	.0	3.3	11.1	
	4-10	2.8	4.2	7.2	3.5	2.3	2.4	4.1	3.9	.0	.0	30.2	
	11-21	.6	2.3	5.3	1.4	.2	.2	.7	2.8	.0	.0	13.6	
	22+	.0	.0	.3	.2	.0	.0	.0	.1	.0	.0	.7	
	TOT %	4.5	7.5	13.7	5.8	4.1	3.6	5.3	7.0	.0	3.3	55.6	
TOT OBS													1435
TOT PCT		5.3	18.2	34.4	12.4	6.6	4.0	5.9	9.2	.0	4.0	100.0	

TABLE 11

PERCENT FREQUENCY VSRY (NM) BY HOUR

MDUR (G-17)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.3	4.3	2.4	7.9	26.9	57.0	303
00007	.9	2.6	3.4	3.4	23.0	64.7	116
12013	3.3	4.8	2.2	6.9	27.1	53.6	461
18021	4.0	3.4	3.1	7.2	23.7	54.6	333
TOT	43	68	39	109	378	798	1435
PCT	3.0	4.7	2.7	7.6	26.3	55.6	100.0

TABLE 13

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

MDUR (G-17)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	68	60	54	44	37	34	33	44.5	308
00007	53	52	47	40	33	33	33	40.9	116
12013	59	53	48	40	34	33	30	40.8	464
18021	66	57	52	43	36	34	33	43.4	337
TOT	68	57	51	42	35	33	30	42.6	1447

PERIOD: (PRIMARY) 1966-1973  
(OVER-ALL) 1966-1973

JUNE

CAPT. H. H. BRIDGES, JR.  
NO. 2N 140.7

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG MO PCPN	FOG MO PCPN PAST HR	SMOKE HAZE	SPRAY RLNG DUST BLWG SYDN	NO SIG WFA
N	3.0	.0	1.3	.0	.0	.0	.0	4.3	.7	.0	1.7	.0	.0	.0	93.9
NE	19.7	.7	6.8	.0	.0	.0	.0	47.2	.0	.0	4.0	.0	.0	.0	48.8
E	33.3	.0	2.7	.0	.0	.0	.0	36.0	.0	.0	8.2	.0	.0	.0	55.8
SE	15.7	.0	4.8	.0	.0	.0	.0	20.5	.0	.0	5.4	.0	.0	.0	74.1
S	5.9	.0	1.0	.0	.0	.0	.0	6.9	.0	.0	7.2	.0	.0	.0	85.9
SW	4.2	.0	.3	.0	.0	.0	.0	4.5	.0	.0	4.2	.0	.0	.0	91.2
W	.9	.0	.9	.0	.0	.0	.0	1.7	.0	.0	11.4	.0	.0	.0	86.9
NW	2.6	.0	1.0	.0	.0	.0	.0	3.7	.0	.0	6.5	.0	.0	.0	89.8
VAR	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.8	.0	6.0	.0	.0	.0	.0	12.8	.0	.0	6.8	.0	.0	.0	60.3
TOT PCT	18.0														
TOT OBS:	1383	.1	3.1	.0	.0	.0	.0	21.2	.0	.0	6.6	.0	.0	.7	72.2

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHHR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG MO PCPN	FOG MO PCPN PAST HR	SMOKE HAZE	SPRAY RLNG	DUST SNDK	NO SIG WFA
0000Z	20.5	.0	3.0	.0	.0	.0	.0	23.5	.0	.0	3.4	.0	.0	.0	.0	73.2
0600Z	19.3	.0	1.8	.0	.0	.0	.0	21.1	.0	.0	.0	.0	.0	.0	.0	78.9
1201Z	13.6	.2	3.4	.0	.0	.0	.0	17.2	.0	.0	9.6	.0	.0	.0	.0	73.2
1802Z	19.8	.0	3.2	.0	.0	.0	.0	22.9	.0	.0	7.1	.0	.0	.0	.0	70.0
TOT PCT	17.9															
TOT OBS:	1395	.1	3.1	.0	.0	.0	.0	21.1	.0	.0	6.5	.0	.0	.0	.0	72.4

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	0-3	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
		4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21
N	1.0	2.7	.5	.0	.0	.0		4.2	6.3	.4	2.6	.0	.0	7.8	12.1	3.8	1.1
NE	1.2	5.5	3.6	.7	.0	.0		10.9	10.3	.9	3.4	15.5	.0	.0	14.7	10.9	17.3
E	1.6	11.7	11.7	2.2	.6	.0		27.8	12.4	27.2	10.3	31.0	17.2	27.9	28.8	29.2	29.4
SE	2.7	10.0	2.6	.9	.2	.0		16.1	8.3	19.3	28.4	14.9	24.1	12.2	14.7	16.4	15.6
S	2.9	7.0	.6	.1	.0	.0		10.5	5.5	17.1	18.1	8.0	13.8	7.3	5.8	9.0	11.5
SW	2.3	4.0	.4	.1	.0	.0		6.8	5.2	.0	8.6	5.7	10.3	5.2	3.7	4.8	10.2
W	1.2	3.8	1.2	.1	.0	.0		6.3	7.3	6.9	11.2	14.3	6.9	5.0	2.7	6.7	6.2
NW	2.2	4.8	1.9	.1	.0	.0		8.9	7.2	6.4	17.2	.0	24.1	8.6	12.9	15.4	7.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.5							8.5	.0	4.5	.0	10.7	3.4	11.3	8.5	17.4	8.3
TOT OBS	324	684	307	57	11	0		1383	8.2	7.6	29	84	29	266	177	266	264
TOT PCT	23.4	49.5	22.2	4.1	.8	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					18 Z
		7-16	17-27	28-40	00 03					06 09	12 15	21			
N	2.4	1.7	.1	.0	.0		4.2	6.3	.8	.0	9.5	2.5			
NE	3.1	8.1	1.4	.3	.0		10.9	10.3	8.6	11.3	13.1	10.2			
E	6.0	15.7	4.8	1.3	.0		27.8	12.4	25.5	27.4	28.3	28.6			
SE	8.2	6.3	1.0	.5	.1		16.1	8.3	20.2	17.3	13.2	16.1			
S	7.7	2.6	.2	.0	.0		10.5	5.5	17.2	9.5	6.7	10.1			
SW	4.8	1.9	.0	.1	.0		6.8	5.2	9.0	6.9	4.6	7.5			
W	2.6	2.5	.1	.1	.0		6.3	7.3	7.3	12.4	4.1	6.4			
NW	4.3	4.4	.1	.1	.0		8.9	7.2	7.5	6.2	10.3	9.1			
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0			
CALM	8.5						8.5	.0	4.1	8.8	10.2	9.4			
TOT OBS	672	572	106	92	1	1383		8.2	7.6	29	84	29	266		
TOT PCT	48.6	41.4	7.7	2.3	.1		100.0		100.0	100.0	100.0	100.0	100.0		

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD
	CALM	1-3	4-10	11-21	22-33	34-47	48+			
0000Z	4.1	11.2	35.3	23.7	5.1	.7	.0	8.4	100.0	295
0600Z	8.8	8.0	34.9	23.0	9.5	1.8	.0	8.7	100.0	113
1201Z	10.2	20.1	46.3	19.9	2.9	.9	.0	7.5	100.0	443
1802Z	9.4	14.3	47.7	23.3	6.7	.6	.0	8.3	100.0	532
TOT	117	207	684	307	57	11	0	8.2		1383
PCT	8.5	15.0	49.5	22.2	4.1	.8	.0			100.0

JUNE

PERIOD: (PRIMARY) 1964-1973  
(OVER-ALL) 1965-1973

TABLE 8

CAPE MICHIGAN, AK  
60.2N 146.7WPERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.7	1.2	.4	.1	.1	.1	.1	.0	.3	3.0	
	NO PCP	.1	.1	.6	.5	.2	.0	.3	.2	.0	.3	2.3	
	TOT %	.1	.9	1.8	.9	.3	.1	.3	.2	.0	.6	5.3	
1/2<1	PCP	.0	.4	.9	.5	.0	.0	.0	.1	.0	.0	2.1	
	NO PCP	.0	.2	.3	.7	.3	.1	.0	.0	.0	.1	1.2	
	TOT %	.0	.6	1.3	.7	.3	.1	.0	.1	.0	.1	3.4	
1<2	PCP	.0	.2	1.2	.9	.1	.0	.0	.0	.0	.1	1.6	
	NO PCP	.0	.0	.3	.7	.7	.1	.1	.1	.0	.1	.7	
	TOT %	.0	.2	1.5	.1	.8	.1	.1	.1	.0	.1	2.3	
2<5	PCP	.0	.4	2.1	.4	.1	.0	.0	.0	.0	.1	3.9	
	NO PCP	.0	.1	.8	.1	.1	.1	.3	.3	.0	.1	1.8	
	TOT %	.0	.9	2.9	.9	.2	.1	.3	.3	.0	.1	5.7	
5<10	PCP	.1	2.2	4.0	1.3	.5	.2	.0	.1	.0	.4	8.8	
	NO PCP	.7	1.4	3.5	3.5	2.9	1.0	.7	.9	.0	1.5	17.5	
	TOT %	.9	3.7	9.4	4.8	2.6	1.2	.7	1.1	.0	1.9	26.3	
10+	PCP	.0	.6	.4	.3	.1	.0	.1	.1	.0	.2	1.8	
	NO PCP	3.2	3.9	10.1	8.3	6.8	5.2	4.9	7.1	.0	5.5	55.3	
	TOT %	3.2	4.5	10.5	8.8	6.9	5.2	4.9	7.2	.0	5.7	57.0	
TOT OBS		4.2	11.0	27.4	16.2	10.5	6.8	6.3	9.0	.0	8.5	137.0	
TOT PCT		4.2	11.0	27.4	16.2	10.5	6.8	6.3	9.0	.0	8.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.1	.1	.2	.2	.1	.1	.1	.0	.6	1.5	
	4-10	.1	.5	.5	.5	.1	.1	.2	.2	.0	.0	2.0	
	11-21	.0	.2	.9	.1	.0	.0	.0	.0	.0	.0	1.2	
	22+	.0	.1	.4	.1	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.1	.9	1.8	.9	.3	.1	.3	.2	.0	.6	5.3	
1/2<1	0-3	.0	.2	.0	.1	.1	.1	.0	.1	.0	.1	.7	
	4-10	.0	.2	.3	.3	.1	.1	.0	.0	.0	.0	1.0	
	11-21	.0	.3	.5	.1	.0	.0	.0	.0	.0	.0	.9	
	22+	.0	.1	.4	.3	.0	.0	.0	.0	.0	.0	.7	
	TOT %	.0	.8	1.3	.7	.3	.1	.0	.1	.0	.1	3.4	
1<2	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.0	.0	.3	.1	.2	.1	.1	.1	.0	.0	.7	
	11-21	.0	.1	.7	.1	.0	.0	.0	.0	.0	.0	.9	
	22+	.0	.1	.5	.1	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.0	.2	1.5	.1	.2	.1	.1	.1	.0	.1	2.3	
2<5	0-3	.0	.0	.1	.1	.0	.0	.1	.1	.0	.1	.4	
	4-10	.0	.4	.7	.3	.1	.1	.2	.3	.0	.0	2.1	
	11-21	.0	.4	1.5	.1	.1	.0	.0	.0	.0	.0	2.1	
	22+	.0	.1	.6	.3	.0	.0	.0	.0	.0	.0	1.0	
	TOT %	.0	.9	2.9	.9	.2	.1	.3	.3	.0	.1	5.7	
5<10	0-3	.2	.2	.4	1.0	.4	.7	.3	.3	.0	1.9	5.4	
	4-10	.5	2.0	3.0	2.5	1.7	.6	.4	.5	.0	.0	11.2	
	11-21	.1	1.2	3.1	1.1	.4	.0	.0	.1	.0	.0	8.0	
	22+	.0	.2	.9	.3	.1	.0	.0	.1	.0	.0	1.6	
	TOT %	.9	3.7	9.4	4.8	2.4	1.2	.7	1.1	.0	1.9	26.3	
10+	0-3	.7	.6	.9	1.4	2.2	1.5	.7	1.7	.0	5.7	15.3	
	4-10	2.2	2.4	6.8	6.5	4.6	3.2	2.9	3.8	.0	.0	32.3	
	11-21	.4	1.3	2.8	.9	.1	.4	1.2	1.8	.0	.0	8.8	
	22+	.0	.1	.1	.1	.0	.1	.1	.0	.0	.0	.5	
	TOT %	3.2	4.5	10.5	8.8	6.9	5.2	4.9	7.2	.0	5.7	57.0	
TOT OBS		4.2	11.0	27.4	16.2	10.5	6.8	6.3	9.0	.0	8.5	100.0	137

TABLE 11

PERCENT FREQUENCY VISBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000Z	5.1	3.4	2.4	4.1	27.7	57.4	296
0600Z	.9	.0	2.7	2.7	22.1	71.7	113
1200Z	7.2	2.7	2.0	8.1	27.5	52.4	443
1800Z	4.7	4.5	2.5	5.1	24.7	58.5	530
TOT	73	46	32	78	360	793	1382
PCT	5.3	3.3	2.3	5.6	26.0	57.4	100.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	90%	95%	99%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	71	64	60	51	44	40	38	50.9	296
0600Z	64	60	55	48	40	38	38	47.8	113
1200Z	65	55	53	47	41	39	38	49.0	443
1800Z	70	62	57	49	42	40	39	49.4	530
TOT	71	62	57	48	42	40	38	48.8	1382

PERIOD: (PRIMARY) 1964-1973  
(OVERALL) 1964-1973

JULY

CAPF MINCHINBROOK, AK  
60.2N 146.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	ORZL	PRZG PCPN	SNOW	OTHER PRZIN PCPN	HAIL	PCPN AT 06 TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	N7 SIG WEA
N	1.8	.0	.0	.0	.0	.0	.0	1.8	.0	.0	1.8	.0	.0	.0	96.3
NE	35.2	.0	5.0	.0	.0	.0	.0	40.7	.0	.0	9.0	.0	.0	.0	50.2
E	27.3	.2	8.2	.0	.0	.0	.0	35.7	.0	.0	8.0	.0	.0	.0	55.7
SE	19.0	.0	3.7	.0	.0	.0	.0	18.7	.0	.0	6.5	.0	.0	.0	74.8
S	8.5	.0	1.1	.0	.0	.0	.0	9.6	.0	.0	6.9	.0	.0	.0	83.5
SW	5.8	.0	.0	.0	.0	.0	.0	5.8	.0	.0	5.8	.0	.0	.0	88.4
W	.7	.0	.0	.0	.0	.0	.0	.7	.0	.0	4.1	.0	.0	.0	95.2
NW	1.3	.0	.9	.0	.0	.0	.0	2.1	.0	.0	2.8	.0	.0	.0	95.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.0	.0	6.7	.0	.0	.0	.0	11.7	.0	.0	18.3	.0	.0	.0	70.0
TOT PCT	16.8	.1	4.2	.0	.0	.0	.0	21.1	.0	.0	7.2	.0	.0	.0	71.7
TOT OBS:	1592														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	ORZL	PRZG PCPN	SNOW	OTHER PRZIN PCPN	HAIL	PCPN AT 06 TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	DUST SNOW	N7 SIG WEA
00003	15.9	.3	3.8	.0	.0	.0	.0	20.1	.0	.0	5.0	.0	.0	.0	.0	74.9
06009	21.0	.0	1.7	.0	.0	.0	.0	22.7	.0	.0	5.9	.0	.0	.0	.0	71.4
12015	15.7	.0	5.3	.0	.0	.0	.0	21.3	.0	.0	7.6	.0	.0	.0	.0	71.2
18021	17.3	.0	3.7	.0	.0	.0	.0	21.0	.0	.0	8.4	.0	.0	.0	.0	70.6
TOT PCT	16.8	.1	4.2	.0	.0	.0	.0	21.0	.0	.0	7.2	.0	.0	.0	.0	71.7
TOT OBS:	1603															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	0-3	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
		4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	1.7	2.9	.5	.0	.0	.0		3.1	5.8	2.5	.0	.0	.0	7.6	9.4	7.7	2.0	
NE	1.5	6.2	4.6	.4	.0	.0		12.7	9.8	8.4	.8	11.6	.0	14.7	14.5	16.8	10.4	
E	3.0	15.1	9.9	2.0	.2	.0		30.1	10.6	30.7	13.7	40.4	21.8	29.9	29.4	27.6	32.9	
SE	1.9	9.1	4.2	.5	.0	.0		15.7	8.7	20.1	41.1	12.5	33.1	13.8	11.9	13.5	14.7	
S	2.9	6.9	1.7	.3	.0	.0		11.8	6.8	13.4	19.4	7.8	14.5	11.9	10.3	9.6	13.2	
SW	1.5	4.1	.6	.0	.0	.0		6.2	5.7	8.9	18.5	9.0	20.2	1.7	2.8	5.5	7.4	
W	1.0	3.9	2.2	.1	.0	.0		7.2	8.7	7.8	3.2	15.1	2.4	6.8	1.8	8.8	8.0	
NW	1.5	4.6	1.2	.0	.0	.0		7.3	6.6	6.1	3.2	.0	4.0	8.9	12.6	5.6	7.4	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.8							3.8	.0	2.6	.0	3.5	.0	4.9	7.4	2.9	2.9	
TOT OBS	299	838	398	34	3	0	1592		8.4	307	31	86	31	307	217	307	336	
TOT PCT	16.8	52.6	25.0	3.4	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				18 Z
		7-16	17-27	28-40	00 03					06 09	12 15			
N	3.3	1.8	.0	.0	.0		3.1	3.8	2.3	.0	.0	.0	4.9	
NE	4.8	6.0	1.8	.1	.0		12.7	9.8	7.7	8.5	14.6		14.7	
E	9.1	18.3	3.8	1.0	.0		30.1	10.6	28.7	35.5	29.7		30.2	
SE	6.8	7.5	1.2	.2	.0		19.7	8.7	22.0	17.9	13.0		14.1	
S	7.5	3.5	.7	.0	.0		11.8	6.8	13.9	10.7	11.2		11.4	
SW	4.2	1.9	.1	.0	.0		6.2	5.7	8.9	12.0	2.1		6.6	
W	3.1	3.7	.3	.0	.0		7.2	8.7	7.4	11.8	4.7		8.4	
NW	4.1	3.2	.0	.0	.0		7.3	6.6	5.8	1.1	10.4		6.7	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0		.0	
CALM	3.8						3.8		.0	2.4	2.6	5.9	2.9	
TOT OBS	743	699	129	21	0	1592		8.4	338	117	524	813		
TOT PCT	46.7	43.9	8.1	1.3	.0		100.0		100.0	100.0	100.0	100.0	100.0	

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)							TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+	MEAN	
00003	2.4	8.9	61.4	24.3	2.1	.0	.0	8.6	100.0
06009	2.6	5.1	39.8	29.1	3.4	.0	.0	9.1	100.0
12015	5.9	20.4	49.0	21.8	2.7	.0	.0	7.6	100.0
18021	2.9	15.7	49.3	27.4	4.7	.0	.0	8.8	100.0
TOT	60	239	838	398	34	3	0	8.4	1592
PCT	3.8	15.0	52.6	25.0	3.4	.2	.0	100.0	

JULY

PERIOD: (PRIMARY) 1966-1973  
(OVER-ALL) 1964-1973CAPE HINGHINBROOK, AK  
60.2N 146.7W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSRY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.6	1.7	.3	.7	.1	.0	.0	.0	.1	2.9	
	NO PCP	.0	.4	.4	.3	.7	.2	.2	.1	.0	.5	2.4	
	TOT %	.0	1.0	2.1	.6	1.4	.3	.2	.1	.0	.6	5.4	
1/2<1	PCP	.0	.2	2.0	.3	.0	.1	.0	.0	.0	.0	2.6	
	NO PCP	.0	.1	.2	.2	.3	.1	.0	.0	.0	.0	.9	
	TOT %	.0	.3	2.2	.5	.3	.1	.0	.0	.0	.0	3.4	
1<2	PCP	.0	.4	1.3	.9	.2	.1	.0	.0	.0	.0	2.8	
	NO PCP	.0	.1	.4	.1	.0	.0	.0	.0	.0	.0	.8	
	TOT %	.0	.6	1.7	.9	.2	.1	.0	.0	.0	.0	3.6	
2<5	PCP	.0	1.1	2.5	.9	.3	.0	.0	.1	.0	.1	5.0	
	NO PCP	.0	.4	1.3	.4	.2	.1	.1	.1	.0	.2	2.7	
	TOT %	.0	1.5	3.8	1.2	.5	.1	.1	.1	.0	.3	7.8	
5<10	PCP	.0	2.5	2.5	.7	.3	.0	.0	.0	.0	.1	6.3	
	NO PCP	.4	2.0	5.7	3.4	2.4	.6	.2	.5	.0	.7	16.3	
	TOT %	.5	4.5	8.2	4.5	2.8	.6	.2	.5	.0	.8	22.6	
10+	PCP	.0	.3	.7	.1	.1	.1	.0	.1	.0	.0	1.4	
	NO PCP	4.6	4.5	11.3	8.0	7.5	4.6	6.8	6.6	.0	1.9	55.8	
	TOT %	4.6	4.8	12.0	8.1	7.6	4.8	6.8	6.7	.0	1.9	57.2	
TOT OBS													1967
TOT PCT		5.2	12.7	30.0	15.8	11.8	6.0	7.3	7.5	.0	3.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.3	.2	.1	.2	.1	.1	.1	.0	.6	1.8	
	4-10	.0	.2	.9	.4	.1	.2	.0	.0	.0	.0	1.9	
	11-21	.0	.4	.7	.1	.1	.0	.0	.0	.0	.0	1.3	
	22+	.0	.1	.3	.1	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.0	1.0	2.1	.6	.4	.3	.2	.1	.0	.6	5.4	
1/2<1	0-3	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	.3	
	4-10	.0	.1	.7	.1	.2	.1	.0	.0	.0	.0	1.2	
	11-21	.0	.0	.8	.3	.0	.0	.0	.0	.0	.0	1.1	
	22+	.0	.1	.7	.0	.0	.0	.0	.0	.0	.0	.9	
	TOT %	.0	.3	2.2	.5	.3	.1	.0	.0	.0	.0	3.4	
1<2	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.3	.5	.2	.0	.1	.0	.0	.0	.0	1.1	
	11-21	.0	.3	1.0	.6	.2	.0	.0	.0	.0	.0	2.0	
	22+	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.0	.6	1.7	.9	.3	.1	.0	.0	.0	.0	3.6	
2<5	0-3	.0	.2	.1	.1	.0	.0	.0	.0	.0	.3	.7	
	4-10	.0	.3	1.9	.7	.2	.0	.1	.1	.0	.0	3.4	
	11-21	.0	.8	1.5	.3	.2	.1	.0	.0	.0	.0	2.8	
	22+	.0	.1	.3	.2	.2	.0	.0	.0	.0	.0	.8	
	TOT %	.0	1.5	3.8	1.2	.6	.1	.1	.1	.0	.3	7.8	
5<10	0-3	.3	.3	.6	.3	.7	.3	.1	.2	.0	.8	3.5	
	4-10	.2	1.9	3.8	2.6	1.2	.3	.1	.3	.0	10.5		
	11-21	.0	2.1	3.1	1.5	.8	.0	.0	.0	.0	7.7		
	22+	.0	.1	.6	.1	.1	.0	.0	.0	.0	1.0		
	TOT %	.5	4.5	8.2	4.5	2.8	.6	.2	.5	.0	.8	22.6	
10+	0-3	1.4	.7	2.0	1.4	2.0	1.0	.7	1.3	.0	1.9	12.9	
	4-10	2.6	3.3	7.2	5.2	3.1	3.2	3.7	4.2	.0	34.5		
	11-21	.0	.8	2.8	1.5	.3	.3	2.2	1.2	.0	10.1		
	22+	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1		
	TOT %	4.6	4.8	12.0	8.1	7.6	4.8	6.8	6.7	.0	1.9	57.2	
TOT OBS													1967
TOT PCT		5.2	12.7	30.0	15.8	11.8	6.0	7.3	7.5	.0	3.7	100.0	

TABLE 11

PERCENT FREQUENCY VSRY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000Z	4.2	2.4	2.4	0.3	18.0	66.1	333
0600Z	.9	3.3	2.4	0.1	18.4	66.7	114
1200Z	5.9	3.1	3.4	9.8	24.9	52.8	923
1800Z	6.3	4.1	4.3	7.2	23.2	54.9	408
TOT	84	55	54	123	354	906	1378
PCT	3.3	3.3	3.3	7.8	22.4	57.4	100.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	76	74	64	53	49	44	44	53.7	333
0600Z	69	68	64	52	47	43	44	53.2	114
1200Z	67	61	57	52	47	43	43	51.9	923
1800Z	72	70	62	54	48	46	43	56.4	408
TOT	76	69	62	53	48	46	44	53.0	1003

PERIOD: (PRIMARY) 1966-1973  
(OVER-ALL) 1964-1973

AUGUST

CAPE HINCHINBROOK, AK  
60.2N 146.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAUL	PCPN AT 00 TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	N7 SIG WFA
N	6.4	.0	1.9	.0	.0	.0	.0	8.3	.0	.0	.0	.0	.0	.0	91.7
NE	40.7	.8	9.7	.0	.0	.0	.0	47.2	.0	.0	4.5	.0	.0	.0	48.3
E	73.4	.2	5.3	.0	.0	.0	.0	38.9	.0	.0	7.4	.0	.0	.0	53.7
SE	24.2	.0	3.4	.0	.0	.0	.0	29.7	.0	.0	6.7	.0	.0	.0	63.6
S	25.4	.0	.0	.0	.0	.0	.0	25.4	.0	.0	6.9	.0	.0	.0	67.7
SW	4.1	.0	.0	.0	.0	.0	.0	4.1	.0	.0	4.1	.0	.0	.0	91.8
W	4.4	.0	.0	.0	.0	.0	.0	4.4	.0	.0	4.1	.0	.0	.0	91.5
NW	2.2	.0	.0	.0	.0	.0	.0	2.2	.0	.0	2.9	.0	.0	.0	94.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.4	.0	1.7	.0	.0	.0	.0	5.2	.0	.0	10.3	.0	.0	.0	84.5
TOT PCT	25.4	.2	3.7	.0	.0	.0	.0	29.3	.0	.0	5.6	.0	.0	.0	65.1
TOT OBS	1617														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAUL	PCPN AT 00 TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG SNOW	N7 SIG WFA
0000	24.9	.0	2.5	.0	.0	.0	.0	27.4	.0	.0	3.7	.0	.0	.0	48.9
0600	34.7	.0	.8	.0	.0	.0	.0	33.5	.0	.0	11.6	.0	.0	.0	52.9
1200	29.7	.4	4.4	.0	.0	.0	.0	30.5	.0	.0	5.7	.0	.0	.0	63.6
1800	24.0	.3	4.2	.0	.0	.0	.0	28.5	.0	.0	5.7	.0	.0	.0	65.8
TOT PCT OBS	25.5 1633	.2	3.7	.0	.0	.0	.0	29.5	.0	.0	5.7	.0	.0	.0	64.8

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21		
N	.7	3.5	1.3	.1	.0	.0		3.6	8.7	3.2	1.8	.0	5.0	8.1	10.4	5.8	3.9		
NE	1.1	8.7	11.9	1.5	.1	.0		23.2	12.5	20.6	12.5	37.9	3.9	28.6	19.2	24.5	21.1		
E	1.9	11.8	11.3	2.8	.2	.0		28.0	12.1	27.9	28.6	33.3	19.2	24.4	20.3	31.7	29.4		
SE	1.4	7.8	3.6	.9	.4	.0		13.7	9.4	19.2	17.9	7.5	32.5	13.3	15.4	12.2	14.5		
S	1.9	5.0	1.4	.2	.2	.0		8.7	7.9	11.7	11.3	5.3	15.0	8.2	7.5	8.8	7.5		
SW	.5	2.0	.1	.0	.0	.0		2.6	5.3	5.0	8.3	5.3	5.0	.6	1.2	1.0	3.2		
W	.5	3.6	1.3	.0	.0	.0		5.4	8.0	6.1	2.4	6.9	8.3	5.0	2.9	6.7	7.2		
NW	1.3	5.8	1.8	.1	.0	.0		9.0	7.8	8.2	17.3	.0	11.7	8.1	13.5	7.0	10.4		
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	3.6	.0	.0	.0	.0	.0		3.6	.0	4.2	.0	3.4	.0	3.6	3.5	3.6	3.9		
TOT OBS	207	782	532	89	7	0	1617		10.0	309	42	87	30	308	229	308	304		
TOT PCT	12.0	48.4	32.4	5.3	.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	03	09	18
N	2.1	3.0	.5	.1	.0		3.6	8.7	3.0	1.3	9.1	4.8
NE	3.6	14.2	4.7	.8	.0		23.2	12.5	19.7	25.1	24.6	22.9
E	6.2	15.8	4.9	1.2	.0		28.0	12.1	28.0	29.7	25.2	30.2
SE	5.3	6.8	1.3	.3	.0		13.7	9.4	13.7	13.9	14.2	13.1
S	4.4	3.6	.1	.2	.1		8.7	7.9	11.0	7.9	7.9	7.9
SW	1.9	.7	.0	.0	.0		2.6	5.3	3.4	3.3	.9	2.1
W	2.3	3.1	.2	.0	.0		5.6	8.0	5.6	7.3	4.1	6.8
NW	3.9	4.6	.4	.0	.0		9.0	7.8	9.3	3.0	10.4	8.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.6	.0	.0	.0	.0		3.6	.0	3.7	2.6	3.5	3.0
TOT OBS	339	842	197	98	.1	1617		10.0	331	117	537	612
TOT PCT	53.3	52.1	12.2	2.4	.1		100.0		100.0	100.0	100.0	100.0

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)						TOTAL OBS
	CALM	1-3	4-10	11-21	22-33	34-47	
0000	3.7	7.1	50.7	32.8	9.1	.0	331
0600	2.6	8.3	46.2	31.6	11.1	.0	117
1200	3.3	10.4	49.3	30.5	9.2	.0	537
1800	3.8	9.5	46.4	35.3	4.9	.2	612
TOT	58	149	782	532	89	7	1617
PCT	3.6	9.2	48.4	32.9	5.3	.4	100.0

PERIOD: (PRIMARY) 1966-1973  
(OVER-ALL) 1964-1973

AUGUST

CAPE MINCHINBROOK, AK  
60.2N 146.7W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSRY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.4	1.9	.4	.3	.1	.0	.1	.0	.0	3.9	
	NN PCP	.0	.0	.4	.2	.3	.0	.0	.2	.0	.2	1.4	
	TOT %	.0	.4	2.4	.9	.5	.1	.0	.3	.0	.2	5.3	
1/2<1	PCP	.0	3.0	2.6	.7	.1	.0	.1	.0	.0	.0	6.5	
	NN PCP	.0	.2	.8	.4	.2	.1	.1	.0	.0	.0	1.8	
	TOT %	.0	3.2	3.4	1.1	.3	.1	.2	.0	.0	.0	8.3	
1<2	PCP	.1	1.2	1.2	.4	.1	.0	.0	.0	.1	.1	3.5	
	NN PCP	.0	.1	.3	.0	.0	.0	.0	.1	.0	.0	.5	
	TOT %	.1	1.3	1.5	.4	.1	.0	.0	.1	.0	.1	4.0	
2<5	PCP	.2	2.1	1.8	.9	.4	.0	.0	.1	.0	.1	5.6	
	NN PCP	.0	.5	.3	.2	.1	.0	.1	.0	.0	.1	1.2	
	TOT %	.2	2.6	2.1	1.1	.5	.0	.1	.1	.0	.2	6.9	
5<10	PCP	.2	3.0	2.9	.7	1.2	.4	.2	.1	.0	.0	8.2	
	NN PCP	.3	4.9	6.4	3.5	1.7	.2	.6	.6	.0	.7	18.9	
	TOT %	.4	7.8	9.2	4.2	2.9	.3	.8	.6	.0	.7	27.1	
10+	PCP	.0	.4	.5	.2	.0	.0	.0	.0	.0	.0	1.6	
	NN PCP	4.9	6.6	9.0	5.3	4.2	2.2	4.5	7.9	.0	2.3	46.9	
	TOT %	4.9	7.5	9.5	5.5	4.3	2.2	4.5	7.9	.0	2.3	48.5	
TOT OBS													1617
TOT PCT		5.6	23.2	28.0	13.7	8.7	2.6	5.6	9.0	.0	3.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.2	.1	.2	.0	.0	.2	.0	.0	.2	1.1
	4-10	.0	.4	.6	.5	.2	.1	.0	.1	.0	.0	1.7	
	11-21	.0	.4	1.2	.2	.0	.0	.0	.0	.0	.0	1.8	
	22+	.0	.0	.4	.1	.2	.0	.0	.0	.0	.0	.7	
	TOT %	.0	.8	2.4	.9	.5	.1	.0	.3	.0	.0	5.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.4	.7	.5	.3	.1	.2	.0	.0	.0	2.2	
	11-21	.0	2.1	1.6	.2	.0	.0	.0	.0	.0	.0	4.0	
	22+	.0	.7	1.1	.2	.0	.0	.0	.0	.0	.0	2.0	
	TOT %	.0	3.2	3.4	1.1	.3	.1	.2	.0	.0	.0	8.3	
1<2	0-3	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	.3	
	4-10	.0	.2	.3	.2	.1	.0	.0	.1	.0	.0	.9	
	11-21	.1	.8	.7	.4	.0	.0	.0	.0	.0	.0	2.1	
	22+	.0	.1	.4	.2	.0	.0	.0	.0	.0	.0	.7	
	TOT %	.1	1.3	1.5	.8	.1	.0	.0	.1	.0	.1	4.0	
2<5	0-3	.1	.1	.2	.2	.0	.0	.0	.0	.0	.2	.8	
	4-10	.0	.5	.6	.5	.3	.0	.1	.0	.0	.0	1.9	
	11-21	.1	1.8	1.1	.4	.2	.0	.0	.1	.0	.0	3.6	
	22+	.0	.3	.2	.1	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.2	2.6	2.1	1.1	.5	.0	.1	.1	.0	.2	6.9	
5<10	0-3	.1	.4	.5	.5	.6	.0	.1	.1	.0	.7	3.1	
	4-10	.3	2.8	4.2	2.2	1.5	.2	.3	.4	.0	.0	12.2	
	11-21	.0	4.3	3.8	1.4	.6	.0	.2	.1	.0	.0	10.4	
	22+	.0	.3	.7	.2	.0	.0	.0	.0	.0	.0	1.4	
	TOT %	.4	7.8	9.2	4.2	2.9	.3	.8	.6	.0	.7	27.1	
10+	0-3	.5	.5	.8	.5	1.0	.5	.4	1.0	.0	2.3	7.5	
	4-10	3.2	4.3	5.6	4.0	2.4	1.7	2.9	3.2	.0	.0	29.5	
	11-21	1.1	2.5	2.9	.9	.6	.1	1.3	1.0	.0	.0	11.0	
	22+	.1	.1	.2	.1	.0	.0	.0	.1	.0	.0	.5	
	TOT %	4.9	7.5	9.5	5.5	4.3	2.2	4.5	7.9	.0	2.3	48.5	
TOT OBS													1617
TOT PCT		5.6	23.2	28.0	13.7	8.7	2.6	5.6	9.0	.0	3.6	100.0	

TABLE 11

PERCENT FREQUENCY VSRY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000	4.0	7.3	4.8	6.2	22.6	55.1	994
0600	2.5	19.6	2.5	4.1	21.5	49.6	121
1200	9.9	8.7	3.1	6.5	32.9	42.9	541
1800	9.8	6.5	4.4	6.1	25.8	49.4	617
TOT	85	137	64	112	443	792	1633
PCT	5.2	8.4	3.9	6.9	27.1	48.5	100.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	73	66	63	55	50	49	48	55.7	994
0600	62	61	58	53	48	45	42	52.2	121
1200	67	62	56	52	48	45	42	52.0	541
1800	69	64	60	53	49	47	42	54.1	617
TOT	73	64	60	53	49	47	42	53.7	1633

SEPTEMBER

PERIOD: (PRIMARY) 1964-1973  
(OVER-ALL) 1964-1973

CAPE MICHENBROOK, AK  
60.2N 146.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHHR	ORZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FDG WD PCPN	FDG WD PCPN PAST HR	SMOKE HAZE	SPRAY RLWG SNOW	Nº SIG WEA
N	6.6	.0	.0	.0	.0	.0	.0	6.6	.0	.0	4.6	.0	.0	.0	78.7
NE	15.7	.0	4.1	.0	.0	.0	.0	39.8	.0	.0	2.8	.0	.0	.0	57.4
E	31.5	.7	2.4	.0	.0	.0	.0	34.6	.0	.0	4.5	.0	.0	.0	40.9
SE	25.7	.3	2.4	.0	.0	.0	.0	28.4	.0	.0	11.3	.0	.0	.0	59.5
S	14.4	.0	1.0	.0	.0	.0	.0	15.5	.0	.0	11.0	.0	.0	.0	73.5
SW	.8	.0	1.7	.0	.0	.0	.0	2.5	.0	.0	5.5	.0	.0	.0	91.9
W	4.0	.0	.0	.0	.0	.0	.0	4.0	.0	.0	2.0	.0	.0	.0	93.9
NW	.0	.8	.8	.0	.0	.0	.0	1.6	.0	.0	.8	.0	.0	.0	97.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.9	.0	.0	.0	93.1
TOT PCT	21.6	.3	2.1	.0	.0	.0	.0	24.0	.0	.0	5.2	.0	.1	.0	70.7
TOT OBS:	1002														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHHR	ORZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FDG WD PCPN	FDG WD PCPN PAST HR	SMOKE HAZE	SPRAY RLWG SNOW	Nº SIG WEA
00003	22.7	.3	1.1	.0	.0	.0	.0	24.1	.0	.0	4.5	.0	.0	.0	71.4
06009	23.3	.0	.0	.0	.0	.0	.0	23.3	.0	.0	2.3	.0	.0	.0	74.4
12015	21.3	.0	3.3	.0	.0	.0	.0	24.3	.0	.0	7.3	.0	.0	.0	68.2
18021	20.6	.7	2.0	.0	.0	.0	.0	23.2	.0	.0	5.0	.0	.3	.0	71.4
TOT PCT	21.5	.3	2.0	.0	.0	.0	.0	23.9	.0	.0	5.4	.0	.1	.0	70.6
TOT OBS:	1010														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.3	3.9	.8	.1	.0	.0		6.1	6.8		2.4	4.7	4.6	5.8	10.5	11.0	4.4	3.6
NE	1.2	8.3	7.8	2.2	.2	.0		19.8	12.4		16.4	15.1	22.6	16.7	21.9	17.8	27.4	20.1
E	1.2	10.6	12.4	3.5	.6	.1		28.4	13.7		30.6	26.7	26.2	33.8	27.1	28.5	25.3	27.4
SE	.9	6.3	6.0	1.8	.4	.0		15.3	13.0		15.0	16.8	7.5	4.2	18.9	19.5	17.0	15.9
S	1.3	2.6	1.9	.3	.0	.0		5.9	9.0		10.2	6.0	2.9	3.3	5.6	4.7	4.4	4.7
SW	.9	2.0	.7	.1	.0	.0		3.7	7.1		6.4	9.5	4.1	11.7	.9	1.1	2.4	4.0
W	.9	5.0	2.7	.6	.0	.0		9.3	9.7		8.7	11.4	21.4	5.0	7.2	5.3	9.7	10.7
NW	1.0	5.2	1.8	.0	.0	.0		7.9	8.0		7.7	9.5	3.9	17.5	8.4	8.0	8.1	7.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.6							3.6	.0		2.3	.0	6.8	.0	4.4	4.1	3.4	4.4
TOT OBS	200	705	539	137	20	1	1002		11.1		299	58	103	30	297	222	294	294
TOT PCT	12.5	44.0	33.4	8.6	1.2	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 4A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	3.2	2.8	.0	.1	.0			6.1	6.8		2.9	4.9	10.7	4.2
NE	3.7	11.4	3.8	.8	.1			19.8	12.4		16.2	21.2	20.1	21.3
E	5.0	13.0	6.5	1.7	.1			26.4	13.7		30.0	26.4	27.7	28.0
SE	3.7	7.8	3.0	.6	.2			15.3	13.0		15.3	6.8	16.3	16.4
S	2.7	2.4	.7	.2	.0			5.9	9.0		9.6	3.0	5.3	5.1
SW	2.1	1.4	.2	.0	.0			3.7	7.1		6.9	5.8	1.0	3.6
W	2.7	3.2	1.2	.1	.0			9.3	9.7		9.2	17.7	6.4	9.9
NW	2.8	3.0	.1	.0	.0			7.9	8.0		8.0	7.0	8.2	7.8
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	2.8							2.8	.0		2.0	3.3	4.2	3.7
TOT OBS	474	818	247	36	7	1002			11.1		336	193	319	394
TOT PCT	29.6	51.1	13.4	3.5	.4			100.0			100.0	100.0	100.0	100.0

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD
	CALM	1-3	4-10	11-21	22-33	34-47	48+			
00003	2.0	8.4	44.9	32.6	9.4	.6	.0	11.2	100.0	336
06009	5.3	12.3	45.1	25.6	6.0	1.5	.0	10.0	100.0	133
12015	4.2	7.3	47.4	31.8	7.5	1.5	.2	11.0	100.0	519
18021	3.7	9.4	39.1	37.7	8.8	1.3	.0	11.3	100.0	594
TOT	98	162	705	539	137	20	1	11.1		1002
PCT	3.6	8.9	44.0	33.6	8.6	1.2	.1	100.0		

SEPTEMBER

PERIOD (PRIMARY) 1964-1973  
(OVER-ALL) 1964-1973

CAPE HINCHINBROOK, AK  
60.2N 146.7W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSRY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.4	.3	.4	.1	.0	.0	.0	.0	.0	1.3	
	NO PCP	.1	.4	.2	.2	.2	.0	.0	.0	.0	.1	.8	
	TOT %	.2	.4	.5	.6	.3	.0	.0	.0	.0	.1	2.3	
1/2<1	PCP	.1	1.6	2.2	.4	.2	.4	.1	.0	.0	.0	4.3	
	NO PCP	.1	.3	.2	.4	.3	.1	.1	.0	.0	.1	1.6	
	TOT %	.1	1.9	2.4	1.2	.5	.5	.2	.0	.0	.1	6.3	
1<2	PCP	.0	.8	.8	.7	.1	.0	.0	.0	.0	.0	2.4	
	NO PCP	.0	.0	.1	.1	.0	.0	.1	.0	.0	.1	.6	
	TOT %	.0	.8	.9	.8	.1	.0	.1	.0	.0	.1	3.0	
2<5	PCP	.1	2.4	3.4	1.4	.2	.1	.0	.1	.0	.0	7.6	
	NO PCP	.1	.2	.6	.7	.2	.1	.1	.1	.0	.0	1.9	
	TOT %	.1	2.6	4.0	2.0	.4	.2	.1	.2	.0	.0	9.5	
5<10	PCP	.1	2.4	3.0	1.7	.3	.4	.3	.1	.0	.0	7.2	
	NO PCP	1.2	3.0	6.9	3.0	1.8	.2	.3	.9	.0	.2	19.2	
	TOT %	1.3	5.4	9.9	4.7	2.1	.6	.6	1.0	.0	.2	26.3	
10+	PCP	.4	.4	.1	.2	.0	.0	.0	.0	.0	.0	.8	
	NO PCP	4.4	6.0	10.8	6.4	3.1	3.3	7.4	4.9	.0	3.2	52.0	
	TOT %	4.8	6.4	11.0	6.6	3.1	3.3	7.4	4.9	.0	3.2	52.8	
TOT OBS													1577
TOT PCT		6.1	20.0	28.7	15.4	6.0	3.7	8.3	8.1	.0	3.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.3	
	4-10	.1	.0	.1	.2	.2	.0	.0	.0	.0	.0	.7	
	11-21	.0	.4	.2	.3	.0	.0	.0	.0	.0	.0	1.0	
	22+	.1	.0	.2	.1	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.2	.4	.5	.6	.3	.0	.0	.0	.0	.1	2.3	
1/2<1	0-3	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	.3	
	4-10	.1	.5	.2	.3	.2	.1	.1	.0	.0	.0	1.9	
	11-21	.0	1.1	1.3	.6	.2	.0	.1	.0	.0	.0	3.3	
	22+	.0	.3	.8	.2	.0	.0	.0	.0	.0	.0	1.3	
	TOT %	.1	1.9	2.4	1.2	.4	.1	.1	.0	.0	.1	6.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.1	.2	.1	.0	.0	.1	.0	.0	.0	.4	
	11-21	.0	.4	.3	.4	.1	.0	.0	.0	.0	.0	1.3	
	22+	.0	.3	.4	.3	.0	.0	.0	.0	.0	.0	1.0	
	TOT %	.0	.8	.9	.8	.2	.0	.1	.0	.0	.1	2.8	
2<5	0-3	.0	.0	.1	.1	.0	.1	.1	.0	.0	.0	.3	
	4-10	.1	.7	.7	.4	.2	.1	.0	.1	.0	.1	2.3	
	11-21	.1	1.0	2.3	1.1	.1	.0	.0	.0	.0	.0	4.6	
	22+	.0	.9	1.0	.4	.1	.0	.0	.0	.0	.0	2.3	
	TOT %	.1	2.6	4.0	2.0	.4	.1	.1	.1	.0	.0	9.5	
5<10	0-3	.4	.3	.3	.2	.1	.1	.1	.1	.0	.2	1.9	
	4-10	.7	2.9	3.2	.9	.5	.1	.3	.8	.0	.0	9.4	
	11-21	.2	3.3	4.8	2.0	.9	.4	.2	.1	.0	.0	11.4	
	22+	.0	.9	1.6	1.0	.1	.0	.0	.0	.0	.0	3.6	
	TOT %	1.3	7.4	9.9	4.1	1.7	.2	.6	1.0	.0	.2	26.3	
10+	0-3	.9	.9	.8	.5	1.1	.7	.8	.8	.0	3.2	9.8	
	4-10	3.0	4.2	6.4	4.4	1.6	1.8	4.2	4.4	.0	.0	30.0	
	11-21	.3	1.7	3.6	1.3	.3	.7	1.9	1.7	.0	.0	11.9	
	22+	.0	.1	.2	.1	.2	.1	.3	.0	.0	.0	1.2	
	TOT %	4.4	7.0	11.0	6.6	3.1	3.3	7.4	6.9	.0	3.2	52.8	
TOT OBS													1577
TOT PCT		6.1	20.0	28.7	15.4	6.0	3.7	8.3	8.1	.0	3.6	100.0	

TABLE 11

PERCENT FREQUENCY VSRY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000Z	3.1	6.8	7.4	7.4	20.7	37.4	332
0600Z	.0	7.0	1.6	3.9	20.3	37.2	128
1200Z	3.1	5.4	3.7	11.0	30.0	46.8	517
1800Z	2.0	5.4	2.4	10.5	27.4	32.2	588
TOT	39	100	44	150	413	837	1585
PCT	2.5	6.3	2.9	8.8	26.2	52.8	100.0

TABLE 12

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	65	59	56	57	44	41	40	51.7	356
0600Z	53	54	53	49	43	39	39	49.4	193
1200Z	55	54	53	49	42	39	36	48.3	322
1800Z	62	58	55	50	44	39	34	47.9	596
TOT	65	58	55	50	43	39	34	49.7	1669

OCTOBER

PERIOD: (PRIMARY) 1964-1973  
(OVER-ALL) 1964-1973CAPT WINCHINBROOK, AK  
60.2N 146.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY ALNG DUST	N° SIG WFA
N	6.4	.0	1.5	.0	3.4	.0	.0	9.2	.0	.0	1.1	.0	.0	.0	89.7
NE	28.2	.5	2.3	.0	4.4	.5	.5	36.0	.0	.0	2.9	.0	.0	.5	60.6
E	33.9	2.2	3.8	.0	1.7	.6	.0	42.1	.0	.0	4.1	.0	.0	.0	53.8
SE	29.0	1.5	3.5	.0	1.9	.1	1.0	33.0	.0	.0	2.5	.0	.0	.0	64.5
S	11.0	.0	.0	.0	.0	.8	1.1	13.0	.0	.0	.0	.0	.0	.0	87.0
SW	17.8	.0	.0	.0	2.2	.0	.0	20.0	.0	.0	.0	.0	.0	.0	80.0
W	3.6	.0	.0	.0	7.1	.0	.0	10.2	.0	.0	.8	.0	.0	.0	89.0
NW	9.1	.0	.5	.0	1.0	.0	.0	10.6	.0	.0	1.4	.0	.0	.0	86.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	20.5	.8	1.9	.0	3.0	.3	.3	26.5	.0	.0	2.3	.0	.0	.1	71.1
TOT OBS	1642														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY ALNG FLWG	DUST SNOW	N° SIG WFA
0000Z	20.1	1.1	1.4	.0	2.2	.5	.3	25.5	.0	.0	3.0	.0	.0	.0	.0	71.4
0600Z	23.2	.6	3.2	.0	3.2	.6	.0	32.3	.0	.0	3.2	.0	.0	.6	.0	63.9
1201Z	22.2	.4	2.1	.0	3.2	.2	.4	27.7	.0	.0	1.9	.0	.0	.7	.0	70.4
1802Z	18.6	1.0	1.3	.0	3.2	.2	.3	24.6	.0	.0	1.9	.0	.0	.2	.0	73.3
TOT PCT TOT OBS:	20.5 1644	.8	1.9	.0	3.0	.3	.3	26.5	.0	.0	2.3	.0	.0	.1	.0	71.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15
N	1.1	6.4	2.1	.1	.0	.0	9.7	8.1	7.3	11.3	5.8	33.9	10.6	14.4	10.0
NE	1.2	9.8	9.6	3.6	1.0	.1	25.2	14.1	20.6	24.6	31.9	10.5	24.9	23.0	27.7
E	.9	7.4	9.0	3.4	1.4	.4	21.5	10.1	23.1	23.0	21.0	37.1	20.9	19.2	27.0
SE	.5	3.2	3.1	2.3	.7	.0	11.9	16.3	14.8	9.3	8.3	4.0	10.2	10.6	14.2
S	.6	1.8	2.5	.4	.1	.1	5.4	12.4	7.1	3.6	3.6	.0	6.1	7.4	3.5
SW	.1	1.3	1.1	.3	.0	.0	2.8	11.6	4.1	4.8	.8	3.2	1.4	2.2	2.2
W	.4	5.0	4.1	1.2	.2	.0	11.0	12.7	11.5	11.3	21.0	.0	11.0	6.3	11.2
NW	.8	7.0	3.6	.3	.1	.0	11.8	9.9	10.8	6.0	3.0	11.3	12.7	15.8	11.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.9	.0	.0	.0	.0	.0	.9	.0	.7	.0	2.4	.0	.8	.4	1.3
TOT OBS	108	700	599	189	57	10	1663	13.3	302	42	124	31	308	217	317
TOT PCT	6.5	42.1	36.0	11.4	3.4	.6	100.0		18.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12
N	3.9	5.4	.4	.0	.0	.0	9.7	8.1	8.0	11.3	12.1	6.1	
NE	5.0	13.1	4.0	2.9	.2	25.2	14.1	14.1	21.6	27.6	25.3	26.5	
E	3.8	10.0	4.6	2.3	.8	21.5	10.1	10.1	23.4	24.2	20.4	20.6	
SE	1.9	4.0	3.9	1.4	.0	11.9	16.3	16.3	13.9	7.6	10.4	13.0	
S	1.4	3.1	.6	.2	.1	5.4	12.4	12.4	6.9	2.9	6.6	4.0	
SW	.7	1.6	.6	.0	.0	2.8	11.6	11.6	4.2	1.3	1.7	3.3	
W	1.8	7.0	1.3	.7	.1	11.0	12.7	12.7	11.3	16.8	9.0	10.8	
NW	3.1	7.6	.9	.1	.0	11.8	9.9	9.9	10.0	6.3	14.0	12.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.9	.0	.0	.0	.0	.9	.0	.0	.5	1.9	.4	1.3	
TOT OBS	373	871	271	128	20	1663	13.3		384	133	323	619	
TOT PCT	22.4	52.4	16.3	7.7	1.2	100.0			100.0	100.0	100.0	100.0	

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD
	CALM	1-3	4-10	11-21	22-33			
0000Z	.5	4.9	46.2	33.5	10.4	4.1	.3	13.1
0600Z	1.9	5.2	39.4	33.5	19.9	3.2	1.3	14.0
1201Z	.4	5.9	43.4	35.8	10.3	1.2	.8	13.1
1802Z	1.3	5.6	39.1	38.3	11.8	3.2	.9	13.4
TOT	13	93	700	599	189	57	10	13.3
PCT	.9	5.0	42.1	36.0	11.4	3.4	.6	100.0

PERIOD: (PRIMARY) 1966-1973  
(OVER-ALL) 1966-1973

OCTUBER

CAPT WINCHESTER, AK  
60.2N 146.7W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSRY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	0	0.7	0.4	0.0	0.0	0.1	0.1	0.0	0.0	0.0	1.9	
	NO PCP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	
	TOT %	0	0.7	0.4	0.0	0.0	0.1	0.1	0.0	0.0	0.0	1.9	
1/2<1	PCP	0.2	1.4	1.5	0.5	0.2	0.1	0.2	0.2	0.0	0.0	4.3	
	NO PCP	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	
	TOT %	0.2	1.6	1.6	0.5	0.2	0.1	0.2	0.2	0.0	0.0	4.5	
1<2	PCP	0.1	1.3	0.9	0.5	0.0	0.0	0.0	0.4	0.0	0.0	3.2	
	NO PCP	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	
	TOT %	0.1	1.4	1.1	0.5	0.0	0.0	0.0	0.4	0.0	0.0	3.4	
2<5	PCP	0.4	1.2	2.5	1.3	0.0	0.1	0.0	0.5	0.0	0.0	5.9	
	NO PCP	0.0	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	
	TOT %	0.4	1.6	2.8	1.3	0.0	0.1	0.0	0.5	0.0	0.0	6.6	
5<10	PCP	0.3	3.8	3.4	1.0	0.4	0.2	0.7	0.2	0.0	0.0	9.9	
	NO PCP	1.7	5.0	5.1	3.0	1.1	0.3	0.6	1.3	0.0	0.0	18.2	
	TOT %	2.0	8.8	8.4	4.0	1.5	0.5	1.3	1.5	0.0	0.0	28.0	
10+	PCP	0.0	0.6	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.4	
	NO PCP	6.9	10.4	6.5	4.6	3.5	2.0	9.2	9.1	0.0	0.0	55.1	
	TOT %	6.9	11.0	6.8	4.9	3.5	2.0	9.2	9.1	0.0	0.0	56.5	
TOT OBS													1663
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	4-10	0.0	0.1	0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.4	0.4
	11-21	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
	22+	0.0	0.4	0.2	0.3	0.1	0.1	0.0	0.0	0.0	0.0	1.2	1.2
	TOT %	0.0	0.7	0.4	0.4	0.1	0.1	0.1	0.1	0.0	0.0	1.9	1.9
1/2<1	0-3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	4-10	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.5	0.5
	11-21	0.1	0.4	0.4	0.1	0.1	0.1	0.1	0.1	0.0	0.0	1.3	1.3
	22+	0.0	1.0	1.2	0.3	0.1	0.1	0.0	0.0	0.0	0.0	2.7	2.7
	TOT %	0.2	1.6	1.6	0.5	0.2	0.2	0.2	0.2	0.0	0.0	4.5	4.5
1<2	0-3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	4-10	0.1	0.2	0.2	0.2	0.0	0.0	0.0	0.3	0.0	0.0	0.8	0.8
	11-21	0.0	0.5	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
	22+	0.0	0.9	0.0	0.2	0.0	0.0	0.0	0.1	0.0	0.0	1.9	1.9
	TOT %	0.1	1.6	1.1	0.6	0.0	0.0	0.0	0.4	0.0	0.0	3.7	3.7
2<5	0-3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
	4-10	0.4	0.6	0.5	0.0	0.0	0.1	0.0	0.2	0.0	0.0	1.7	1.7
	11-21	0.1	0.4	1.5	0.9	0.0	0.0	0.0	0.3	0.0	0.0	3.2	3.2
	22+	0.0	0.4	1.1	0.6	0.0	0.1	0.0	0.1	0.0	0.0	2.3	2.3
	TOT %	0.5	1.6	3.1	1.5	0.0	0.1	0.0	0.6	0.0	0.0	7.4	7.4
5<10	0-3	0.3	0.4	0.1	0.1	0.2	0.0	0.1	0.1	0.0	0.0	1.5	1.5
	4-10	1.0	2.4	3.2	0.8	0.5	0.1	0.5	0.8	0.0	0.0	9.3	9.3
	11-21	0.6	4.3	3.5	2.0	0.6	0.3	0.5	0.6	0.0	0.0	12.3	12.3
	22+	0.0	1.7	1.6	1.1	0.2	0.1	0.2	0.2	0.0	0.0	4.9	4.9
	TOT %	2.0	8.8	8.4	4.0	1.5	0.5	1.3	1.5	0.0	0.0	28.0	28.0
10+	0-3	0.8	0.7	0.8	0.4	0.4	0.1	0.3	0.7	0.0	0.0	4.9	4.9
	4-10	4.8	6.5	3.5	2.2	1.3	1.1	4.4	5.5	0.0	0.0	29.4	29.4
	11-21	1.3	3.6	2.3	1.7	1.8	0.8	2.3	2.8	0.0	0.0	17.8	17.8
	22+	0.1	0.2	0.3	0.0	0.0	0.0	1.2	0.1	0.0	0.0	2.4	2.4
	TOT %	6.9	11.0	6.9	4.9	3.5	2.0	9.2	9.1	0.0	0.0	56.5	56.5
TOT OBS													1663
TOT PCT													100.0

TABLE 11

PERCENT FREQUENCY VSRY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000Z	1.9	4.7	4.4	6.3	23.8	56.9	364
0600Z	0.6	4.5	3.9	10.3	23.2	57.4	155
1201Z	2.1	5.7	2.5	9.1	30.7	49.9	527
1802Z	2.1	3.4	4.2	5.8	28.1	56.4	619
TOT	32	75	61	123	466	908	1663
PCT	1.9	4.5	3.7	7.4	28.0	54.5	100.0

TABLE 13

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	58	55	51	43	35	32	30	43.3	364
0600Z	52	52	49	42	35	31	26	41.3	155
1201Z	53	50	47	41	35	31	27	40.6	527
1802Z	57	52	50	42	35	31	28	41.9	619
TOT	56	52	50	42	35	31	26	41.6	1663

## NOVEMBER

PERIOD: (PRIMARY) 1964-1973  
(OVER-ALL) 1964-1973

CAPE HINCHINBROOK, AK  
60.2N 146.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							Nº SIG WFA
	RAIN	RAIN SHWR	ORZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DIST	
N	1.3	.0	.7	.0	3.3	.0	.4	5.7	.0	.0	1.0	.0	.0	.0	93.2
NE	13.2	.9	2.9	.0	13.4	1.1	.0	31.2	.0	.0	2.4	.0	.0	.0	66.4
E	23.6	.9	1.5	.0	12.5	.0	.0	38.5	.0	.0	3.4	.0	.0	.0	58.1
SE	33.1	3.4	3.4	.0	2.4	.0	.0	41.6	.0	.0	5.1	.0	.0	.0	53.3
S	9.9	.0	.0	.0	5.9	.0	.0	15.8	.0	.0	.0	.0	.0	.0	84.2
SW	4.3	.0	.0	.0	5.3	.0	.0	9.6	.0	.0	.0	.0	.0	.0	90.4
W	4.3	.0	.0	.0	8.0	.0	.0	12.3	.0	.0	.9	.0	.0	.0	86.9
NW	1.7	.0	1.4	.0	4.8	.0	.0	7.8	.0	.0	1.7	.0	.0	.0	90.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.8	.0	4.8	.0	.0	.0	.0	9.5	.0	.0	.0	.0	.0	.0	90.5
TOT PCT	11.6	.6	1.7	.0	8.0	.3	.1	22.2	.0	.0	2.2	.0	.0	.0	75.7
TOT OBS:	1580														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							Nº SIG WFA
	RAIN	RAIN SHWR	ORZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DIST	
00003	13.9	.0	1.1	.0	7.4	.3	.0	22.7	.0	.0	1.7	.0	.0	.0	75.6
06009	14.8	2.0	2.0	.0	9.4	.7	.0	28.2	.0	.0	2.0	.0	.0	.0	49.8
12015	10.6	.4	2.2	.0	8.3	.4	.0	21.6	.0	.0	2.8	.0	.0	.0	75.6
18021	11.2	.8	1.5	.0	7.9	.0	.2	21.6	.0	.0	1.8	.0	.0	.0	76.5
TOT PCT	11.9	.6	1.7	.0	8.0	.2	.1	22.5	.0	.0	2.1	.0	.0	.0	75.4
TOT OBS:	1607														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18
N	1.9	10.7	3.4	.4	.0	.0		16.6	8.3		13.7	33.9	14.4	25.5	16.0	19.9	17.2
NE	1.9	7.3	10.2	2.6	.1	.0		22.1	12.7		23.7	7.1	20.7	16.5	24.0	17.1	23.0
E	1.2	7.0	8.2	2.5	1.1	.2		20.2	14.7		20.3	34.4	11.1	38.2	17.7	21.7	17.6
SE	.5	1.2	2.2	2.4	1.1	.0		7.9	20.3		9.1	7.6	6.1	4.1	7.2	7.5	9.1
S	.1	1.0	1.1	.9	.1	.0		3.2	16.2		3.1	3.6	4.7	1.8	3.6	3.0	1.7
SW	.0	.7	.7	.1	.0	.0		1.5	12.5		.8	.0	.3	1.8	2.5	1.6	1.4
W	.2	3.0	3.4	.5	.2	.0		7.3	12.5		6.2	.0	22.2	.0	7.6	2.5	7.4
NW	1.4	8.3	9.2	.6	.0	.0		19.5	11.2		19.9	4.4	7.8	14.1	19.1	24.2	15.8
VAR	.0	.0	.0	.0	.0	.0		2.7	.0		.1	.0	.0	.0	.0	.0	.0
CALM	2.7							2.7	.0		3.1	.0	6.7	.0	2.4	2.4	1.7
TOT OBS	157	420	594	165	43	3	1582		12.5		290	58	90	58	290	206	290
TOT PCT	9.9	39.2	37.5	10.4	2.7	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 4A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	7.3	8.0	1.1	.2	.0			10.6	8.3		17.0	18.6	17.6	15.0
NE	9.0	11.1	9.2	.8	.0			22.1	12.7		21.0	22.1	21.2	23.6
E	4.3	9.2	4.4	1.8	.4			20.2	14.7		23.3	21.4	19.3	18.8
SE	1.1	2.2	2.2	2.2	.1			7.9	20.3		8.9	5.3	7.3	8.4
S	.6	1.3	.8	.5	.0			3.2	16.2		3.2	3.6	3.4	2.9
SW	.3	.9	.3	.0	.0			1.5	12.5		.7	.9	2.1	1.6
W	1.5	4.2	1.2	.3	.0			7.3	12.5		5.2	13.8	5.5	8.6
NW	3.9	11.3	3.2	.1	.0			19.5	11.2		18.2	10.2	21.2	18.5
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	2.7							2.7	.0		2.6	4.1	2.4	2.5
TOT OBS	422	764	293	85	8	1582			12.5		346	145	302	369
TOT PCT	26.7	48.3	18.5	5.0	.5			100.0			100.0	100.0	100.0	100.0

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD
	CALM	1-3	4-10	11-21	22-33	34-47	48+			
00003	2.6	9.0	41.9	33.8	10.4	1.7	.6	12.0	100.0	346
06009	4.1	6.2	41.4	33.8	11.0	3.4	.0	12.4	100.0	149
12015	2.4	6.4	36.4	39.6	11.0	2.2	.0	12.3	100.0	302
18021	2.3	7.3	37.5	39.0	9.4	3.6	.2	12.7	100.0	369
TOT	42	115	680	944	168	43	.5	12.5		1582
PCT	2.7	7.3	39.2	37.5	10.4	2.7	.2	100.0		

PERIOD: (PRIMARY) 1966-1973  
(OVER-ALL) 1966-1973

NOVEMBER

CAPE HINCHINBRUNK, AK  
60.2N 146.7W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.7	1.1	.5	.0	.0	.0	.5	.0	.0	3.0	
	NN PCP	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	
	TOT %	.1	.7	1.1	.5	.0	.0	.0	.5	.0	.0	3.1	
1/2<1	PCP	.0	1.2	.0	.4	.0	.0	.1	.4	.0	.0	3.1	
	NN PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	1.3	.0	.4	.0	.0	.1	.4	.0	.0	3.1	
1<2	PCP	.0	.7	.5	.4	.0	.0	.0	.0	.0	.0	1.6	
	NN PCP	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.7	.8	.4	.0	.0	.0	.0	.0	.0	1.9	
2<5	PCP	.4	1.9	2.3	1.5	.0	.1	.2	.1	.0	.0	6.6	
	NN PCP	.1	.3	.3	.3	.0	.0	.0	.2	.0	.0	1.2	
	TOT %	.4	2.2	2.7	1.8	.0	.1	.2	.3	.0	.0	7.8	
5<10	PCP	.4	1.7	2.8	.6	.5	.1	.5	.4	.0	.3	7.3	
	NN PCP	1.0	4.4	4.4	2.1	1.2	.4	.5	2.2	.0	.1	17.4	
	TOT %	2.2	6.5	7.2	2.7	1.6	.4	1.0	2.7	.0	.4	24.7	
10+	PCP	.0	.3	.2	.0	.0	.0	.0	.1	.0	.0	.6	
	NN PCP	13.9	9.7	7.7	2.2	1.6	1.0	5.8	14.8	.0	2.1	58.8	
	TOT %	13.9	10.0	7.9	2.2	1.6	1.0	5.8	14.9	.0	2.1	59.4	
TOT OBS													1556
TOT PCT		16.8	21.5	20.5	8.0	3.2	1.5	7.1	18.8	.0	2.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.1	.1	.0	.0	.0	.0	.1	.0	.0	.4	
	11-21	.0	.4	.4	.0	.0	.0	.0	.3	.0	.0	1.1	
	22+	.0	.2	.6	.5	.0	.0	.0	.1	.0	.0	1.5	
	TOT %	.1	.7	1.1	.5	.0	.0	.0	.5	.0	.0	3.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.3	.1	.1	.0	.0	.1	.1	.0	.0	.7	
	11-21	.0	.8	.4	.1	.0	.0	.0	.2	.0	.0	1.4	
	22+	.0	.2	.5	.2	.0	.0	.0	.1	.0	.0	1.0	
	TOT %	.0	1.3	.9	.4	.0	.0	.1	.4	.0	.0	3.1	
1<2	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.3	
	11-21	.0	.5	.2	.0	.0	.0	.0	.0	.0	.0	.8	
	22+	.0	.1	.3	.4	.0	.0	.0	.0	.0	.0	.8	
	TOT %	.0	.7	.8	.4	.0	.0	.0	.0	.0	.0	1.9	
2<5	0-3	.2	.0	.0	.1	.0	.0	.0	.1	.0	.0	.4	
	4-10	.3	.3	.3	.0	.0	.1	.1	.2	.0	.0	1.1	
	11-21	.1	1.2	1.4	.4	.0	.0	.1	.1	.0	.0	3.3	
	22+	.0	.7	1.0	1.3	.0	.0	.0	.0	.0	.0	3.0	
	TOT %	.6	2.2	2.7	1.8	.0	.1	.2	.3	.0	.0	7.8	
5<10	0-3	.4	.3	.3	.1	.1	.0	.1	.1	.0	.4	1.7	
	4-10	1.2	1.7	2.3	.4	.2	.1	.3	1.2	.0	.0	7.6	
	11-21	.3	3.7	3.1	1.0	.6	.3	.3	1.4	.0	.0	10.6	
	22+	.1	.8	1.4	1.3	.7	.1	.2	.1	.0	.0	4.7	
	TOT %	2.2	6.5	7.2	2.7	1.6	.4	1.0	2.7	.0	.4	24.7	
10+	0-3	1.3	1.6	.9	.4	.0	.0	.2	1.2	.0	2.1	7.6	
	4-10	9.2	6.6	4.1	.8	.8	.6	2.1	8.9	.0	.0	29.0	
	11-21	3.1	3.4	2.8	.7	.5	.4	3.0	6.3	.0	.0	20.4	
	22+	.2	.4	.1	.4	.3	.0	.3	.3	.0	.0	2.3	
	TOT %	13.9	10.0	7.9	2.2	1.6	1.0	5.8	14.9	.0	2.1	59.4	
TOT OBS													1556
TOT PCT		16.8	21.5	20.5	8.0	3.2	1.5	7.1	18.8	.0	2.4	100.0	

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	3.4	3.7	2.0	9.2	20.1	61.5	948
06009	1.4	1.4	2.1	7.6	27.1	60.4	144
12015	2.6	4.0	1.6	8.1	27.1	56.6	905
18021	3.6	2.4	2.0	7.0	24.6	60.4	586
TOT	44	49	30	125	390	941	1583
PCT	3.0	3.1	1.9	7.9	24.6	59.4	100.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	48	46	44	37	26	22	19	36.6	394
06009	48	47	44	36	25	21	18	35.3	149
12015	49	45	43	35	25	21	19	35.2	510
18021	49	46	44	37	25	21	17	36.1	566
TOT	49	46	44	36	25	21	17	35.9	1609

DECEMBER

PERIOD: (PRIMARY) 1964-1973  
(OVER-ALL) 1964-1973

CAPE MICHIGAN, AK  
NO. 2N 146.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WNO DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY ALRG DIST	MT SIG WFA
N	1.6	.0	.3	.0	10.2	.0	.0	12.1	.0	.0	.0	.0	.0	.0	87.9
NE	13.4	.8	3.1	.0	23.7	.6	.2	43.2	.0	.2	4.7	.0	.2	.0	41.9
E	23.3	.9	1.2	.0	26.0	.0	.0	49.8	.0	.0	2.6	.0	.0	.0	47.0
SE	29.3	2.5	3.7	.0	12.7	1.0	.0	48.9	.0	.0	3.5	.0	.0	.0	47.6
S	7.0	.0	1.7	.0	8.1	.0	.0	18.9	.0	.0	.0	.0	.0	.0	83.1
SW	4.4	.0	.0	.0	8.9	.0	.0	13.3	.0	.0	4.4	.0	.0	.0	82.2
W	.7	.0	.0	.0	14.0	.0	.0	15.5	.0	.0	2.8	.0	.0	.0	81.7
NW	.1	.0	.7	.0	6.4	.0	.0	7.2	.0	.0	1.2	.0	.0	.0	91.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.2	.0	3.3	.0	3.3	.0	.0	8.9	.0	.0	3.3	.0	1.1	.0	86.7
TOT PCT	10.4	.5	1.8	.0	16.9	.2	.1	29.5	.0	.1	2.7	.0	.1	.0	87.7
TOT OBS	1662														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY PLMG	MT DIST SIG	MT SIG WFA
0000Z	10.5	.5	1.3	.0	16.7	.5	.0	28.6	.0	.0	3.5	.0	.3	.0	.0	67.7
0600Z	12.5	.7	1.3	.0	17.8	.0	.0	31.6	.0	.7	2.0	.0	.0	.0	.0	66.4
1200Z	9.9	.2	2.1	.0	17.2	.2	.0	29.4	.0	.0	2.9	.0	.0	.0	.0	67.7
1800Z	10.2	.8	1.9	.0	16.5	.2	.2	29.5	.0	.0	2.3	.0	.2	.0	.0	68.1
TOT PCT TOT OBS	10.4 1663	.5	1.8	.0	16.9	.2	.1	29.5	.0	.1	2.7	.0	.1	.0	.0	67.7

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-9	10-19	20-29	30-39	40-49	50-59	60-69				00	03	06	09	12
N	1.3	7.5	4.0	.6	.0	.0	.0	13.5	9.4	13.2	10.1	10.3	11.3	16.7	15.2
NE	1.9	9.5	13.6	3.8	.8	.1	.1	29.6	13.9	29.9	31.9	40.6	20.2	28.3	26.4
E	.6	4.2	7.8	9.4	1.1	.2	.2	17.2	16.9	18.6	29.8	13.0	27.8	16.3	17.5
SE	.1	1.2	2.6	1.5	.6	.8	.8	6.1	19.4	4.9	1.6	7.2	7.7	6.0	3.6
S	.9	.9	1.2	.2	.0	.0	.0	2.6	12.6	2.7	4.0	1.9	2.8	1.5	2.1
SW	.2	.6	.6	.0	.0	.0	.0	1.4	9.4	2.0	2.4	1.4	1.8	1.5	1.2
W	.5	3.5	2.4	1.2	.3	.0	.0	8.0	13.1	7.3	4.8	18.9	4.8	6.9	5.3
NW	1.0	7.3	7.1	.6	.1	.0	.0	16.2	11.0	17.2	2.4	2.5	1.2	17.2	16.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.4							5.4	.0	4.2	12.9	2.2	22.6	5.6	3.7
TOT OBS	188	578	654	189	49	4	1662		12.8	309	62	90	62	306	217
TOT PCT	11.3	34.4	39.4	11.4	2.9	.2	100.0			100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	03	06	12
N	5.5	6.5	1.3	.2	.0	13.5	9.4	12.7	10.7	16.1	12.5
NE	6.3	13.4	6.1	1.8	.1	29.6	13.9	30.3	32.2	27.6	30.3
E	2.8	6.9	5.3	1.6	.6	17.2	16.9	20.5	20.2	16.8	14.9
SE	.6	2.2	1.7	1.5	.1	6.1	19.4	4.3	7.4	5.0	7.7
S	.6	1.2	.6	.1	.0	2.6	12.6	2.9	2.3	1.7	3.2
SW	.9	.7	.2	.0	.0	1.4	9.4	2.1	1.5	1.3	.9
W	2.2	3.4	1.8	.6	.0	8.0	13.1	6.9	13.2	6.4	8.9
NW	3.2	10.7	2.2	.2	.0	16.2	11.0	14.8	2.0	20.3	17.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.4					5.4	.0	5.7	10.5	4.8	4.5
TOT OBS	450	748	352	98	14	1662	12.8	371	192	523	616
TOT PCT	27.1	45.0	21.2	5.9	.8	100.0		100.0	100.0	100.0	100.0

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD
	CALM	1-3	4-10	11-21			
0000Z	5.7	7.8	34.9	35.6	10.8	3.0	12.3
0600Z	10.5	3.3	34.2	32.9	15.1	3.9	13.2
1200Z	4.8	5.3	37.9	40.3	8.8	2.3	12.3
1800Z	4.3	5.7	31.0	42.4	15.0	3.2	13.4
TOT	90	98	578	654	49	4	12.8
PCT	5.4	5.9	34.8	39.4	11.4	2.9	100.0

PERIOD: (PRIMARY) 1964-1973  
(OVER-ALL) 1964-1973

DECEMBER

CAPE MICHIGAN BROOK, AK  
60.2N 146.7W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.3	1.7	1.1	.0	.1	.0	.1	.3	.0	.0	3.6	
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.3	1.8	1.1	.0	.1	.0	.1	.3	.0	.0	3.7	
1/2<1	PCP	.3	2.5	1.1	.2	.0	.1	.5	.1	.0	.1	4.7	
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.3	2.6	1.1	.2	.0	.1	.5	.1	.0	.1	4.8	
1<2	PCP	.2	1.9	1.1	.2	.0	.0	.1	.3	.0	.1	4.0	
	NO PCP	.0	.3	.1	.0	.0	.1	.0	.0	.0	.1	.5	
	TOT %	.2	2.2	1.2	.2	.0	.1	.1	.3	.0	.2	4.5	
2<5	PCP	.3	3.2	2.2	1.5	.1	.0	.1	.4	.0	.1	8.1	
	NO PCP	.0	.8	.4	.3	.0	.0	.2	.2	.0	.1	2.0	
	TOT %	.3	4.0	2.6	1.7	.1	.0	.3	.6	.0	.2	10.1	
5<10	PCP	.3	3.4	2.9	1.1	.1	.1	.4	.1	.0	.2	8.6	
	NO PCP	.0	4.8	3.1	1.4	.6	.1	1.1	1.1	.0	.2	12.2	
	TOT %	1.1	8.3	5.9	2.6	.7	.2	1.4	1.2	.0	.4	20.8	
10+	PCP	.1	.2	.2	.0	.0	.0	.1	.0	.0	.0	.5	
	NO PCP	11.0	10.6	5.1	1.5	1.6	1.0	6.5	13.8	.0	4.5	55.6	
	TOT %	11.1	10.8	5.3	1.5	1.6	1.0	6.6	13.8	.0	4.5	56.1	
TOT OBS													1660
TOT PCT													
		13.5	29.6	17.2	0.1	2.6	1.4	8.0	16.2	.0	5.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.1	
	4-10	.1	.1	.0	.0	.0	.0	.0	.2	.0	.0	.4	
	11-21	.1	.9	.8	.0	.1	.0	.1	.1	.0	.0	1.9	
	22+	.1	.9	.3	.0	.0	.0	.0	.1	.0	.0	1.3	
	TOT %	.3	1.8	1.1	.0	.1	.0	.1	.3	.0	.0	3.7	
1/2<1	0-3	.1	.2	.0	.0	.0	.0	.0	.0	.0	.1	.3	
	4-10	.1	.3	.1	.0	.0	.1	.2	.0	.0	.0	.8	
	11-21	.1	1.2	.7	.2	.0	.0	.1	.1	.0	.0	2.3	
	22+	.0	.9	.2	.0	.0	.0	.2	.0	.0	.0	1.4	
	TOT %	.3	2.6	1.1	.2	.0	.1	.3	.1	.0	.1	4.8	
1<2	0-3	.1	.2	.1	.0	.0	.0	.0	.1	.0	.2	.6	
	4-10	.1	.4	.0	.0	.0	.0	.1	.1	.0	.0	.7	
	11-21	.0	1.1	.3	.1	.0	.1	.0	.1	.0	.0	1.7	
	22+	.0	.5	.8	.2	.0	.0	.0	.0	.0	.0	1.5	
	TOT %	.2	2.2	1.2	.2	.0	.1	.1	.3	.0	.2	4.5	
2<5	0-3	.0	.1	.0	.1	.0	.0	.0	.2	.0	.2	.6	
	4-10	.2	1.0	.1	.3	.0	.0	.1	.2	.0	.0	1.9	
	11-21	.2	1.9	1.2	.5	.0	.0	.1	.1	.0	.0	4.0	
	22+	.1	1.0	1.4	1.0	.1	.0	.1	.1	.0	.0	3.6	
	TOT %	.5	4.0	2.6	1.7	.1	.0	.3	.5	.0	.2	10.1	
5<10	0-3	.2	.2	.0	.1	.1	.1	.1	.1	.0	.4	1.1	
	4-10	.0	2.5	1.4	.4	.2	.1	.1	.5	.0	.0	5.8	
	11-21	.4	4.4	2.9	1.2	.4	.1	.1	.5	.0	.0	10.1	
	22+	.0	1.2	1.6	.8	.1	.0	.1	.1	.0	.0	3.8	
	TOT %	1.1	8.3	5.9	2.4	.7	.2	.4	1.2	.0	.4	20.8	
10+	0-3	1.0	1.1	.3	.0	.2	.1	.4	.7	.0	4.5	8.5	
	4-10	6.5	5.3	2.5	.9	.7	.5	3.0	6.3	.0	.0	23.3	
	11-21	3.2	4.1	1.9	.8	.7	.4	2.1	6.3	.0	.0	19.3	
	22+	.4	.3	.4	.2	.1	.0	1.1	.5	.0	.0	3.0	
	TOT %	11.1	10.8	5.3	1.5	1.6	1.0	6.6	13.8	.0	4.5	56.1	
TOT OBS													1660
TOT PCT													
		13.5	29.6	17.2	0.1	2.6	1.4	8.0	16.2	.0	5.4	100.0	

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000Z	3.4	5.4	4.3	8.6	22.4	55.4	370
0600Z	1.3	2.0	2.6	11.8	25.7	56.6	152
1200Z	2.7	5.4	9.7	11.1	21.2	53.9	523
1800Z	5.7	4.7	9.9	9.7	18.2	58.3	616
TOT	80	74	148	365	932	1461	
PCT	3.7	4.8	4.5	10.1	20.8	56.1	100.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	47	43	40	33	20	13	5	32.4	371
0600Z	50	48	42	34	21	18	15	33.0	152
1200Z	50	42	40	32	19	11	2	31.0	523
1800Z	46	44	40	34	20	12	3	32.0	617
TOT	50	43	40	33	20	13	2	31.9	1662

PERIOD: (PRIMARY) 1966-1974  
(OVER-ALL) 1964-1974

# ANNUAL

CAPE WINCHINBRUM, AK  
60.2N 146.7W

TABLE 1

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FAIN PCPN	HAIL	PCPN AT OR TIME	PCPN PAST HOUR	THNR LTNG	FGG WQ PCPN	FJG WQ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NF SIG WFA	
N	3.2	.0	.7	.0	4.5	.0	.0	8.3	.0	.0	1.3	.0	.0	.0	.0	90.4
NE	24.2	.3	3.6	.0	12.3	.4	.1	40.6	.0	.0	4.3	.0	.0	.0	.0	54.9
E	24.8	.5	3.3	.0	12.6	.4	.0	41.3	.0	.0	5.3	.0	.0	.0	.1	53.2
SE	21.5	.8	4.3	.0	6.0	.2	.1	32.5	.0	.0	4.8	.0	.1	.2	.2	62.5
S	9.8	.0	.7	.0	3.0	.1	.3	15.8	.0	.0	4.0	.0	.0	.0	.0	80.2
SW	3.6	.0	.0	.0	3.4	.0	.0	9.7	.0	.0	2.4	.0	.0	.0	.0	87.9
W	1.6	.0	.3	.0	3.3	.0	.0	7.2	.0	.0	3.1	.0	.0	.0	.1	89.7
NW	1.7	.1	.6	.0	3.3	.0	.0	5.7	.0	.0	2.1	.0	.0	.0	.0	92.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0	.0	2.2	.0	4.8	.1	.0	9.1	.0	.0	5.3	.0	.1	.0	.0	85.6
TOT PCT	15.0	.3	2.4	.0	8.3	.2	.1	26.0	.0	.0	4.0	.0	.0	.1	.0	69.8
TOT OBS	18144															

TABLE 2

## PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FAIN PCPN	HAIL	PCPN AT OR TIME	PCPN PAST HOUR	THNR LTNG	FGG WQ PCPN	FJG WQ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NF SIG WFA	
00003	15.3	.2	2.2	.0	7.8	.2	.1	23.6	.0	.0	3.1	.0	.1	.1	.1	71.1
06009	17.6	.3	1.3	.0	9.0	.2	.0	28.2	.0	.1	3.2	.0	.0	.2	.2	68.4
12015	14.4	.2	2.8	.0	8.3	.4	.1	25.8	.0	.0	4.7	.0	.0	.1	.0	69.4
18021	14.7	.3	2.4	.0	8.3	.1	.1	25.8	.0	.0	4.1	.0	.1	.1	.1	69.8
TOT PCT	15.0	.3	2.4	.0	8.3	.2	.1	26.0	.0	.0	4.0	.0	.0	.1	.0	69.8
TOT OBS	18229															

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)								
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FRQ	MEAN SPD			00	03	06	09	12	15	18	21
N	1.2	5.3	2.0	.2	.0	.0		8.7	7.8			5.7	10.3	5.9	13.7	11.0	12.4	9.0	6.2
NE	1.5	8.5	10.0	2.8	.4	.0		23.3	12.8			20.7	11.9	30.1	9.3	24.7	22.4	23.1	21.8
E	1.3	8.7	9.6	9.2	.9	.1		23.9	14.3			24.8	30.0	23.4	31.5	21.6	23.7	22.9	24.7
SE	1.0	4.5	3.6	1.3	.3	.0		10.9	12.8			12.4	17.6	7.3	13.5	9.5	10.2	10.5	11.7
S	1.1	2.9	1.3	.3	.0	.0		5.6	9.9			7.3	7.6	4.5	8.6	5.1	4.6	4.9	5.9
SW	.6	1.8	.4	.0	.0	.0		2.8	7.5			4.3	5.8	3.2	5.9	1.6	1.5	1.9	3.8
W	.6	3.9	2.3	.5	.1	.0		7.6	10.4			8.7	4.0	10.5	2.3	6.4	3.7	7.8	8.5
NW	1.2	7.0	4.6	.3	.0	.0		13.2	9.3			13.0	8.7	3.5	9.4	13.6	18.5	13.9	13.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0			.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.1							4.1	.0			3.1	4.2	5.6	5.7	4.5	3.5	4.0	4.4
TOT OBS							18191		11.3			3422	489	1107	416	3447	2390	3449	3431
TOT PCT	12.6	42.6	34.1	8.8	1.8	.2		100.0				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										HOUR (GMT)								
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FRQ	MEAN SPD				00	03	06	09	12	15	18	21
N	3.8	4.3	.5	.1	.0			8.7	7.8			6.3	7.9	11.6	7.6				
NE	4.8	11.9	5.2	1.2	.1			23.3	12.8			19.8	24.6	24.9	23.5				
E	4.6	12.0	5.1	1.4	.3			23.9	14.3			25.4	25.8	22.5	23.8				
SE	3.2	4.7	2.1	.9	.1			10.9	13.8			12.9	9.4	9.8	11.1				
S	2.9	2.1	.3	.0	.0			5.6	9.9			7.3	5.0	4.9	5.4				
SW	1.7	1.0	.1	.0	.0			2.8	7.5			4.4	3.8	1.6	2.8				
W	2.3	4.1	.9	.2	.0			7.6	10.4			8.2	12.6	5.1	6.2				
NW	3.8	8.1	1.2	.1	.0			13.2	9.3			12.4	5.0	13.6	13.4				
VAR	.0	.0	.0	.0	.0			.0	.0			.0	.0	.0	.0				
CALM	4.1							4.1	.0			3.2	5.8	4.1	4.2				
TOT OBS						18191			11.3			3911	1523	3837	6880				
TOT PCT	31.0	48.4	15.3	4.6	.5			100.0				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 4

## PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)										TOTAL OBS								
	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FRQ			00	03	06	09	12	15	18	21
00003	3.2	6.9	46.1	33.6	8.6	1.5	.1	11.3	100.0		3911								
06009	5.8	6.3	42.7	32.1	10.8	1.9	.4	11.7	100.0		1323								
12015	4.1	9.6	42.6	34.1	7.8	1.7	.1	11.1	100.0		3837								
18021	4.2	8.8	47.7	34.9	9.3	2.0	.1	11.3	100.0		6880								
TOT								11.3			18191								
PCT	4.1	8.9	42.6	34.1	8.8	1.8	.2		100.0										

PERIOD: (PRIMARY) 1964-1974  
(OVER-ALL) 1964-1974

# ANNUAL

CAPE MINCHINGBROOK, AK  
60.2N 146.7W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF  
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	1.4	1.8	.4	.1	.1	.1	.1	.0	.1	3.9	
	NO PCP	.1	.1	.2	.1	.1	.1	.1	.1	.0	.1	.8	
	TOT %	.1	1.6	1.7	.5	.2	.1	.1	.2	.0	.2	4.6	
1/2<1	PCP	.1	1.4	1.8	.4	.1	.1	.1	.1	.0	.1	4.4	
	NO PCP	.1	.1	.2	.1	.1	.1	.1	.1	.0	.1	.7	
	TOT %	.1	1.8	2.0	.6	.2	.1	.2	.2	.0	.2	5.2	
1<2	PCP	.1	1.1	1.0	.5	.1	.1	.1	.1	.0	.1	2.8	
	NO PCP	.1	.1	.2	.1	.1	.1	.1	.1	.0	.1	.3	
	TOT %	.1	1.2	1.2	.6	.2	.1	.2	.2	.0	.2	3.3	
2<5	PCP	.2	2.1	2.3	1.0	.2	.4	.1	.2	.0	.1	6.3	
	NO PCP	.1	.5	.6	.3	.1	.1	.1	.1	.0	.1	1.8	
	TOT %	.3	2.7	2.9	1.3	.3	.5	.2	.3	.0	.2	8.1	
5<10	PCP	.2	2.6	2.8	.8	.4	.1	.3	.2	.0	.2	7.5	
	NO PCP	.1	4.1	4.4	2.3	1.1	.3	.4	1.1	.0	.4	14.9	
	TOT %	1.0	6.7	7.1	3.2	1.6	.5	.6	1.3	.0	.6	22.4	
10+	PCP	.1	.4	.3	.1	.1	.1	.1	.1	.0	.1	1.1	
	NO PCP	7.1	8.9	8.6	4.7	3.5	2.3	6.4	11.0	.0	3.1	55.3	
	TOT %	7.1	9.3	8.9	4.8	3.5	2.3	6.4	11.1	.0	3.1	56.4	
TOT OBS													18020
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.1	.1	.1	.1	.1	.1	.1	.0	.2	.5	
	4-10	.1	.2	.3	.2	.1	.1	.1	.1	.0	.1	1.0	
	11-21	.1	.7	.7	.2	.1	.1	.1	.1	.0	.1	1.8	
	22+	.1	.5	.6	.1	.1	.1	.1	.1	.0	.1	1.4	
	TOT %	.1	1.6	1.7	.5	.2	.1	.1	.2	.0	.2	4.6	
1/2<1	0-3	.1	.1	.1	.1	.1	.1	.1	.1	.0	.1	.2	
	4-10	.1	.3	.3	.1	.1	.1	.1	.1	.0	.1	1.1	
	11-21	.1	.9	.9	.2	.1	.1	.1	.1	.0	.1	2.2	
	22+	.1	.5	.8	.2	.1	.1	.1	.1	.0	.1	1.6	
	TOT %	.1	1.8	2.0	.6	.2	.1	.2	.2	.0	.2	5.2	
1<2	0-3	.1	.1	.1	.1	.1	.1	.1	.1	.0	.1	.2	
	4-10	.1	.2	.2	.1	.1	.1	.1	.1	.0	.1	.7	
	11-21	.1	.6	.5	.2	.1	.1	.1	.1	.0	.1	1.4	
	22+	.1	.3	.4	.2	.1	.1	.1	.1	.0	.1	1.0	
	TOT %	.1	1.2	1.2	.5	.1	.2	.2	.2	.0	.2	3.3	
2<5	0-3	.1	.1	.1	.1	.1	.1	.1	.1	.0	.1	.5	
	4-10	.1	.4	.4	.3	.1	.1	.1	.1	.0	.1	2.0	
	11-21	.1	1.4	1.4	.5	.1	.1	.1	.1	.0	.1	3.3	
	22+	.1	.6	.9	.5	.1	.1	.1	.1	.0	.1	2.1	
	TOT %	.3	2.7	2.9	1.3	.2	.2	.2	.2	.0	.2	6.1	
5<10	0-3	.2	.3	.3	.2	.2	.1	.1	.2	.0	.6	2.1	
	4-10	.1	2.2	2.4	1.1	.6	.2	.3	.7	.0	.1	8.1	
	11-21	.2	3.3	3.2	1.4	.9	.1	.2	.4	.0	.1	9.2	
	22+	.1	.9	1.3	.5	.1	.1	.1	.1	.0	.1	3.0	
	TOT %	1.0	6.7	7.1	3.2	1.4	.3	.6	1.3	.0	.6	22.4	
10+	0-3	.1	.1	.1	.1	.1	.1	.1	.1	.0	.1	.1	
	4-10	4.4	5.0	5.0	2.8	2.0	1.4	3.3	3.9	.0	3.1	29.8	
	11-21	1.0	3.1	2.9	1.2	.7	.4	2.2	3.9	.0	1.6	15.9	
	22+	.1	.2	.2	.2	.1	.1	.3	.3	.0	.1	1.6	
	TOT %	7.1	9.3	8.9	4.8	3.5	2.3	6.4	11.1	.0	3.1	56.4	
TOT OBS													18020
TOT PCT													100.0

TABLE 11

PERCENT FREQUENCY VISBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000	4.5	5.3	3.3	7.1	20.7	59.1	3900
0600	1.7	5.0	2.8	7.1	20.4	62.9	1913
1200	4.9	5.2	3.4	9.2	24.6	52.7	5932
1800	5.1	5.1	3.3	7.9	21.7	56.9	6058
TOT PCT	4.6	5.2	3.4	8.1	22.3	56.5	18105 100.0

TABLE 12

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	76	54	50	42	34	29	5	42.4	3998
0600	87	50	47	40	31	28	3	39.6	1583
1200	87	49	46	40	31	27	2	39.7	5861
1800	72	52	49	41	32	28	2	41.2	6910
TOT	76	52	48	41	32	28	2	40.8	18284